CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 14, 1906.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File.................. 219
List of Contracts Pending 219
Railways 220
Electric Railways 220
Light and Power Plants ....'......................... 221
Bridges 221
Buildings 221
Water Supply and Irrigation....................... 222
Sewerage 222
Garbage Disposal 223
Streets and Roads 223
Manufacturing Plants 223
Contract Prices 224, 225, 226
Miscellaneous Contracts 226
PROPOSALS 227-228

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
June				
15—	Lights..	Fort Ethan Allen, Vt..	S. & B. S.....	5-31
15—	Grading, etc..	Portland, Me....	P. S. & B. S...	5-24
•15—	Distributing system..	Mitchell, Nebr.	P. & S.........	5- 8
•18—	Paving, etc..	Clarion, Pa........	S. & B. S.....	5-31
18—	Intercptg sewer..	Jackson, Mich.	S. & B. S......	6- 7
18—	Drainage canal..	Wichita, Kans..	S..............	5-24
•20—	Canal..	Billings, Mont...........	P. & S.........	5-31
•20—	Pumping station..	Phila., Pa....	P. & S.........	5-31
21—	Canal..	Klamath Falls, Ore......	P. & S.........	5-31
21—	Dredging..	Bridgeport, Conn....	S. & B. S.....	5-24
•22—	Macadam..	Somerville, N. J....	P., S. & B. S...	6-14
•26—	Dredging,	New London, Conn..	S. & B. S.....	5-31
30—	Piers..	Philadelphia, Pa.........	S.............	6- 7
•30—	Tunnel..	New Zealand	P. S. & B. S...	5-31
•27—	Storage works..	Portland, Ore...	P. S. & B. S...	4-26
30—	Railwy grading..	Vaughan, N. C.	S.............	6-14
July				
•2—	Sewer sys..	Cape Girardeau, Mo.	S. & B. S.....	5-21
7—	Pumps..	Garden City, Kans......	P. & S.........	5-31
Sept.				
15—	Hotel bldg..	Manila, P. I.........	S.............	3-29

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue.

June 15. Electric system, Fort Ethan Allen, Vt..May 24
June 15. Lighting, Fort Wright, Wash...........May 31
June 15. Electric fixtures, Fort Strong, Hass.....June 14
June 22. Heating, Governor's Island, N. Y......June 14
Advertised, Eng. News, June 14.
June 25. Heating, Austin, Tex....................June 14
June 28. Light-house suppl's, Tompkinsville, N. Y. June 14
June 28. Power-house, Washington, D. C.......May 17
Advertised, Eng. News, May 17 to June 21.
July 5. Water power for sale, Kenora, Ont....Mar. 15
Advertised, Eng. News, Mar. 15.
July 11. Heating, Sherman, Tex..................June 14
No date. Gas plant, Wakefield, Nebr............May 31

BRIDGES.

June 15. Bridges, Cornwall, Ont..................June 14
June 16. Bridge, Alamosa, Colo..................May 31
June 16. Four bridges, Washington, D. C........June 7
June 18. Bridge, Helena, Mont..................June 7
June 18. Two steel bridges, Cornwall, Ont......May 31
June 18. Seven bridges, Cornwall, Ont...........June 14
June 19. Bridges, Butler, Mo.....................June 14
June 19. Bridge, Annapolis, Md...................June 7
Advertised, Eng. News, June 7.
June 20. Bridge, Warren, O........................June 14
June 20. Six bridges, Pittsburg, Pa...............June 14
June 21. Bridge, Newark, N. J....................June 14
Advertised, Eng. News, June 14 and 21.
June 22. Three bridges, Coshocton, O............June 14
June 22. Steel bridge, Woonsocket, R. I.........June 14
Advertised, Eng. News, June 14.
June 22. Bridges, etc., Columbia City, Ind.........June 7
June 23. Bridge, Washington C. H., Ohio.........June 14
June 25. Bridge, Doylestown, Pa...................June 14
June 26. Bridge, Olongapo, P. I...................May 24
June 30. Bridges, St. John, N. B..................Apr. 12
June 30. Bridge, Hood River, Ore..................June 14
July 1. Four steel bridges, Leland, La.........May 24
July 2. Steel bridge, Lakeport, Cal.............May 31
July 3. Steel bridge, Brandon, Man.............June 14
Advertised, Eng. News, June 14 to 28.
July 18. Seven bridges, Cornwall, Ont..........June 14

BUILDINGS.

June 15. Buildings, Ft. Riley, Kans...............June 7
June 15. Y. M. C. A. building, Charleston, W. Va. May 31
June 16. Building, Seattle, Wash..................June 14
June 18. Building, Washington, D. C.............June 7
Advertised, Eng. News, June 7 and 14.
June 19. Court-house, Sumter, S. C..............May 31
June 20. Buildings, Rochester, N. Y..............June 7
Advertised, Eng. News, June 7 and 14.
June 20. Building, Poughkeepsie, N. Y...........June 7
Advertised, Eng. News, June 7 and 14.
June 21. Gun shed, Annapolis, Md...............May 31
Advertised, Eng. News, May 31 and June 7.
June 22. Church, Douglas, Ga.....................June 7
June 22. Post-office, St. Mary's, Ont.............June 14
June 26. Court-house, Brunswick, Ga............May 24
Advertised, Eng. News, May 24 and 31.
June 26. City hall, Pensacola, Fla.................June 14
July 1. Court-house, Monticello, Ga.............June 7
July 2. School, Cleveland, Ohio....................June 14
July 14. Building, Seattle, Wash..................June 14
Sept. 15. Hotel, Manila, P. I......................Mar. 29
No date. Planing mill, Washington, D. C.........June 7
No date. Creamery, Rising Sun, Md...............June 7

WATER SUPPLY AND IRRIGATION.

June 15. Distributing system, Brownsville, Tex..May 31
June 15. Engines and pumps, Chatham, Va.......June 7
Advertised, Eng. News, June 7.
June 18. Pipe, etc., Brandon, Man...............May 24
June 19. Water-works, Leesburg, Va..............May 24
Advertised, Eng. News, May 24 and June 7.
June 19. Pipe, etc., Buffalo, N Y..................June 14
June 20. Water-works, Tallula, Ill...............May 24
Advertised, Eng. News, May 24 and 31.
June 20. Pumping station, etc., Philadelphia, Pa. May 17
Advertised, Eng. News, May 17 and 24 and June 14.
June 20. Water-works, Potlatch, Idaho............June 7
June 21. Water-works, Whitesboro, Tex...........June 14
June 22. Filter supplies, Cincinnati, Ohio..........June 7
June 25. Water mains, etc., Port Washington......June 7
Advertised, Eng. News, June 7 and 14.
June 25. Water-works, Alturas, Cal..............May 31
June 27. Pipe laying, Brownsville, Pa.............June 14
Advertised, Eng. News, June 14.
June 29. Conduit & reservoir, Carney's Point, N. J. June 7
Advertised, Eng. News, June 7 to 21.
July 1. Water-works, Hailey, Idaho...........May 31
July 2. Pipe laying, Saranac Lake, N. Y.........June 14
Advertised, Eng. News, June 14 and 21.
July 6. Water system, Chicago, Ill..............June 14
Advertised, Eng. News, June 14 to 28.
July 7. Pumps, Garden City, Kans.............May 17
Advertised, Eng. News, May 17 to June 21.
July 8. Pipe, Vancouver, B. C...................June 14
July 9. Pumping station, Williston, N. Dak....June 14
July 9. Engine, Pawtucket, R. I..................June 7
Advertised, Eng. News, June 7 to 21.
July 12. Water system, Carencro, La.............June 14
Aug. 1. Artesian wells, Famagusta, Egypt.......May 31
Advertised, Eng. News, May 31 to June 21.
Oct. 15. Water-works, Rio Grande do Sul, Brazil. May 31

SEWERAGE.

June 15. Sewer, Hammond, Ind...................June 7
June 15. Sewers, Utica, N. Y......................June 7
June 15. Sewer system, Grand Rapids, Mich.......June 7
Advertised, Eng. News, June 7.
June 15. Sanitary sewer, Waterford, N. Y.........June 7
Advertised, Eng. News, June 7 and 14.
June 15. Sewers, Grand Rapids, Mich.............May 31
June 15. Sewer construction, Escanaba, Mich....May 3
June 15. Sewer, Corte Madera, Cal...............June 14
June 16. Sewers, Dixon, Ill.........................June 14
June 18. Sewers, Alexandria Bay, N. Y...........June 14
Advertised, Eng. News, June 14.
June 18. Sewer, Hammond, Ind....................June 14
June 18. Sewers, Cincinnati, Ohio.................June 14
June 18. Sewers, New York, N. Y.................June 14
June 18. Intercepting sewer, Jackson, Mich......May 31
Advertised, Eng. News, May 31.
June 18. Sewers, Washington, D. C.............May 31
Advertised, Eng. News, May 31 and June 7.
June 20. Sewer, Bridgeport, Conn.................June 7
Advertised, Eng. News, June 7 and 14.
June 20. Sewers, Bordentown, N. J...............June 14
Advertised, Eng. News, June 14.
June 20. Sewers, Richmond, Ind...................June 14
June 20. Sewer, New York, N. Y...................June 14
June 20. Drain, Coleman, Tex......................June 14
June 22. Sewer, Valparaiso, Ind....................June 14
June 23. Sewers, Evansville, Ind..................June 14
June 23. Sewers, Seattle, Wash....................June 14
June 23. Sewers, Ogden, Utah......................June 7
June 23. Sewers, Norwood, Ohio..................June 7
June 25. Sewer, Wabash, Ind.......................June 14
June 25. Sluice gates, Washington, D. C.........June 14
Advertised, Eng. News, June 14 and 21.
June 25. Drain, Ormsby, Minn......................June 14
June 26. Sewer, Vacaville, Cal.....................Apr. 5
June 27. Drains, Millbrook, Ont....................June 14
June 28. Sewers, Seneca Falls, N. Y...............June 14
Advertised, Eng. News, June 14 and 21.
June 30. Sewer, Medford, Ore......................June 14
July 2. Sewers, Saranac Lake, N. Y..............June 14
Advertised, Eng. News, June 14 and 21.
July 3. Sewer work, Waterbury, Conn............June 14
No date. Sewers, Knoxville, Tenn....... ......May 31

STREETS AND ROADS.

June 15. Grading, etc., Portland, Me............May 24
June 15. Paving, etc., Amherst, N.S..............June 7
June 15. Sidewalk, Spencer, Iowa..................June 7
June 15. Paving, etc., Troy, N. Y...................June 14
June 15. Sidewalks, Milverton, Ont...............June 14
June 15. Paving, Wheeling, W. Va.................June 14
June 15. Sidewalks, Avalon, N. J...................June 14
Advertised, Eng. News, June 14.
June 16. Towpath, Portsmouth, Ohio..............June 7
June 18. Sidewalks, Lockport, Ill....................June 7
June 18. Paving, Clarion, Pa........................May 24
Advertised, Eng. News, May 24 and 31.
June 18. Paving, etc., Lewiston, Pa...............May 31
Advertised, Eng. News, May 31 to June 14.
June 18. Macadam, Johnstown, N. Y...............June 14
June 18. Macadam, etc., Alexandria Bay.........June 14
Advertised, Eng. News, June 14.
June 18. Paving, etc., Montgomery, Ala..........June 14
June 18. Curbing, Washington, D. C..............June 14
June 19. Paving, Cohoes, N. Y.....................June 14
Advertised, Eng. News, June 14.
June 19. Paving, Sioux City, Ia....................June 14
June 19. Macadam, Wilmington, Del..............June 7
Advertised, Eng. News, June 7.
June 20. Streets, Janesville, Wis..................May 31
June 20. Paving, etc., Spangler, Pa...............June 7
Advertised, Eng. News, June 7 and 14.
June 20. Paving, Buffalo, N. Y......................June 14
June 20. Roadwork, Warren, Pa.....................June 14
June 21. Paving, London, Ont.......................June 14
June 21. Paving, Boise, Idaho.......................June 14
June 21. Paving, Guthrie, Okla......................June 14
June 22. Macadam, Somerville, N. J..............June 7
Advertised, Eng. News, June 7 to 21.
June 22. Paving, Norfolk, Va........................May 31
Advertised, Eng. News, May 31 and June 7.
June 23. Brick road, Danville, Ill...................June 14
June 23. Grading, etc., Randleman, N. C.........June 14
June 27. Grading, etc., New York, N. Y..........June 14
June 28. Street improvement, Dunkirk, N. Y......June 14
Advertised, Eng. News, June 14 and 21.
June 28. Roads, Albany, N. Y......................June 7
Advertised, Eng. News, June 7 to 21.
June 29. Paving, Indiana, Pa......................June 14
Advertised, Eng. News, June 14.
June 29. Roads, Albany, N. Y. ....June 7
Advertised, Eng. News, June 7 to 21.
June 30. Roads, Albany, N. Y.......................June 7
Advertised, Eng. News, June 7 to 21.
June 30. Sidewalks, Terrace Park, O.............June 14
July 2. Gravel road, Greencastle, Ind...........June 14
July 2. Gravel road, Crownpoint, Ind............June 14
July 2. Grading, etc., Cincinnati, O..............June 14
July 2. Macadam, Clinton, Tenn..................June 14
July 3. Macadam, Spencer, Ind....................June 14
July 3. Stone road, Paulsboro, N. J.............June 14
Advertised, Eng. News, June 14 to 28.
July 3. Grading and paving, Waterbury, Conn...June 7
Advertised, Eng. News, June 7 to 21.
No date. Bitulithic, Paulsboro, N. J..............June 14
Advertised, Eng. News, June 14 to 28.
No date. Ten gravel roads, Brownstown, Ind....May 31
No date. Stone road, Sullivan, Ind..............May 31
No date. Gravel roads, Paoli, Ind.................May 31

MISCELLANEOUS CONTRACTS.

June 15. Building material, West Point, N. Y.....May 17
Advertised, Eng. News, May 17 to June 7.
June 15. Distributing system, Mitchell, Neb.......May 8
Advertised, Eng. News, May 8 to 24.
June 15. Concrete superstructures, Cornwall, Ont..June 7
June 15. Dredging, Ottawa, Ont.....................June 14
June 16. Wireless telegraph, Washington, D. C....June 14
June 18. Ditch, Montgomery, Ala...................June 7
June 18. Drainage Canal, Wichita, Kans...........June 7
Advertised, Eng. News, June 7 and 14.
June 19. Stone crusher, Portland, Me.............June 7
Advertised, Eng. News, June 7.
June 19. Stone crusher, Portland, Me.............June 14
June 20. Dredging, New York, N. Y.................June 14
June 20. Levee work, Memphis, Tenn...............June 7
June 20. Wash borings, Baltimore, Md............June 7
Advertised, Eng. News, June 7.
June 20. Wireless station, New York, N. Y........June 7
June 20. Grading railroad, Townsend, Tenn.....June 7
Advertised, Eng. News, June 7 and 14.
June 20. Canal, Billings, Mont.....................May 17
Advertised, Eng. News, May 17 to June 14.
June 20. Dredging, Cleveland, O..................May 31
June 21. Stone mound, Charleston, S. C..........May 31
Advertised, Eng. News, May 31 to June 14.
June 21. Canal, Klamath Falls, Ore...............May 17
June 21. Dredging, Bridgeport, Conn.............May 24
Advertised, Eng. News, May 24 to June 14.
June 21. Incinerator, Winnipeg, Man.............May 31
Advertised, Eng. News, May 31 and June 7.
June 22. Dredging, Jacksonville, Fla..............June 14
June 23. Ditch, Crookston, Minn..................June 14
June 23. Dredging, Walnut, Ill.....................June 7
Advertised, Eng. News, June 7 and 14.
June 25. Machinery, Pittsburg, Pa.................June 7
June 25. Grading and bridging, Tremont, La......June 7
June 25. Repairing breakwater, Burlington, Vt....May 31
Advertised, Eng. News, May 31 to June 21.
June 26. Dredging, New London, Conn...........May 31
Advertised, Eng. News, May 31 to June 21.
June 26. Launches, New York, N. Y...............June 14
June 26. Ditch, Columbus, Ind.....................June 14
June 27. Storage works, Portland, Ore............Apr. 26
Advertised, Eng. News, Apr. 26 to May 10.
June 28. Dam, Hermiston, Ore.....................May 3
Advertised, Eng. News, May 3 to June 7.
June 28. Light-house supplies, Tompkinsville, N.Y. May 31
Advertised, Eng. News, May 31 to June 21.
June 28. Dredging, Erie, Pa.........................June 7
Advertised, Eng. News, June 7 to 21.
June 29. Retaining walls, Catlettsburg, Ky......May 31
Advertised, Eng. News, May 31 to June 21.
June 29. Canal, Portland, Ore......................May 10
Advertised, Eng. News, May 10 to June 7.
June 30. Superstructure, Chicago, Ill..............May 31
Advertised, Eng. News, May 31 to June 21.
June 30. Piers, Philadelphia, Pa...................June 7
June 30. Sea wall, Fort Monroe, Va................June 7
Advertised, Eng. News, June 7 to 28.
June 30. Railway grading, Vaughan, N. C.........June 14
Advertised, Eng. News, June 14.
July 5. Dikes, New York, N. Y...................June 14
Advertised, Eng. News, June 14 and 21.
July 7. Wharf, Fort Munroe, Va..................June 14
Advertised, Eng. News, June 14 to July 5.
July 7. Pumps, Garden City, Kans...............May 31
July 9. Tunnel, Arthur's Pass, New Zealand....June 7
Advertised, Eng. News, June 7 to July 5.
July 9. Pumping station, Williston, N. Dak....June 14
July 10. Dam, Cody, Wyo.........................June 7
Advertised, Eng. News, June 7 to 28.
July 11. Butterfly dam, Chicago, Ill..............May 17
Advertised, Eng. News, May 17.
July 11. Dredging, Detroit, Mich..................June 14
Advertised, Eng. News, June 14 to July 5.
July 16. Monument, Palestine, Tex...... ....June 14
July 24. Canal widening, Detroit, Mich............June 7
Advertised, Eng. News, June 7.
July 31. Canal, Browning, Mont....................June 7
Advertised, Eng. News, June 7 to July 5.
Sept. 4. Railway supplies, Siam (Foreign) ......Apr. 26
Advertised, Eng. News, April 26.
Sept. 4. Cars, Bangkok, Siam.......................May 31
Advertised, Eng. News, May 3 and 10.
Sept. 12. Locomotives, Bangkok, Siam ....May 31
Advertised, Eng. News, May 3 and 10.
Oct 15. Drains, Rio Grande do Sul, Brazil......May 31
No date. Hill levelling, Famagusta, Egypt........June 7
Advertised, Eng. News, June 7 to 28.

CIVIL SERVICE EXAMINATIONS.

June 20. Mechanician, Mt. Weather, Va.........May 31
June 27. Testing Engineer, Washington, D. C....May 31
June 27. Gen. Mechanic, Seger Agency, Okla.....May 31
June 27. Testing, Engr., Washington, D. C......May 31
June 30. Rodman, Albany, N. Y.....................June 7
Advertised, Eng. News, June 7.
June 30. Bridge Designer, Albany, N. Y..........June 7
Advertised, Eng. News, June 7.
June 30. Bridge Draftsman, Albany, N. Y........June 7
Advertised, Eng. News, June 7.
June 30. Arch. Draftsman, Albany, N. Y..........June 7
Advertised, Eng. News, June 7.
July 5. R. R. Transportation Agt., Wash., D. C. June 7
July 5. Hospital Interne, Panama ....June 7
July 5. Arch. Draftsman, Philippine Islands....June 7
July 5. Civil Engr., Hot Springs, Ark...........June 7
July 6. Medical Interne, Washington, D. C....June 7

Proposed Work

ENGINEERING NEWS desires to obtain the **EARLIEST POSSIBLE RELIABLE INFORMATION** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALCOLU R. R.—This company, according to D. W. Alderman, of Alcolu, S. C., Vice-Pres., will extend its line from Biula to Motts Cross Roads, about five miles. Grading has commenced. R. J. Alderman, Alcolu, is Pres.

AUGUSTA CONSTRUCTION CO.—A. E. Hess, Ch. Engr. of this company, writes us from Augusta, Ga., that surveys are being made and right-of-way is partially secured for the line which the company will build between Augusta and Madison, Fla. Line is to be 104 miles long. Contracts for construction will be let as soon as surveys are completed.

BEECH CREEK & CLEARFIELD.—It is reported that work on the construction of this branch of the New York Central R. R. Co. is being pushed rapidly. The new road leaves the Jamestown & Franklin division of the Lake Shore at Franklin, Pa., and follows for some distance the general course of the Allegheny Valley from Polk. Several surveys have been made and the one finally decided upon and now being utilized is a low-grade plan. The line is being pushed into the heart of the mountainous coal country east of Crawford County, and will be 138 miles long. The construction of three big tunnels will be a feature of the work. It is generally believed that it will be used as a cut-off for shortening the main line between New York and the West. G. W. Kittredge, Grand Central Station, New York, is Ch. Engr.

BIRMINGHAM, COLUMBUS & ST. ANDREW.—We are officially advised by John C. Hyer, of Chipley, Fla., Ch. Engr. of this company, that "track has been laid on the first ten miles of grading and the contract let to grade seven additional miles, which will connect up with a stretch of grading twenty miles long. This will give us thirty miles of track south of Chipley. Contracts are to be let soon for the grading north of Chipley, 12 miles, to Graceville, connecting there with the Louisville and Nashville R. R. The right-of-way has all been cleared and timber delivered on this work."

BROWNWOOD & CISCO.—COMER & CONNELL of Fort Worth, Tex., have been awarded the contract for building the Brownwood & Cisco R. R. The survey has been completed and J. Peters, Engr. in Charge, has established offices at Brownwood. The work of raising a $30,000 bonus is about completed and work will begin on the road as soon as the financial matters are arranged.

CENTRAL OF GEORGIA.—It is stated that the Central of Georgia R. R. Co. will, without delay, build the necessary connecting links to form a continuous line from Atlanta to the Gulf of Mexico. The Central already controls an almost unbroken line over the greater portion of the distance, and plans are now under way for the completion of a direct route. It is reported that contract for the construction of an extension from Andalusia to the Gulf of Mexico, 50 miles, has been let. H. M. Steele, Savannah, Ga., is Ch. Engr.

CHESAPEAKE & OHIO.—Contract for the construction of the Pott's Creek Valley branch of this road, from the main line near Covington, Va., about 20 miles up the valley, has been let to PITTS DORRIER & CO. of Scottsville, Va.

CHICAGO, BURLINGTON & QUINCY.—The Chicago, Burlington & Quincy Ry. Co. will, it is reported, rush work on the double-tracking of its line between Kansas City and St. Joseph, Mo. A 12-mile cut-off is also proposed between Beverly and Waldron. A. W. Newton, St. Louis, Mo., is Div. Engr.

CINCINNATI, BLUFFTON & CHICAGO.—S. H. Bracey, Pres., 1606 Tribune Bldg., Chicago, writes us that surveys are completed and right of way about secured for the line from Bluffton to Union City, about 76 miles. Capital has been secured and contracts are to be let within 30 days. D. C. Dunlap, 1606 Tribune Bldg., Chicago, is Ch. Engr.

DES PERES VALLEY.—F. N. Johnson, Pres. of the Scullin-Gallagher Iron and Steel Co. of St. Louis, which controls this railroad, is reported to have stated that the company owns 85 acres of land in the city of St. Louis, bounded on the north by the Missouri Pacific Ry. tracks and on the south by the Frisco tracks, and will connect with both roads. He says: "We expect to increase our main line and side-tracks from time to time, as occasion requires, under our own supervision, and we will not make contracts for construction." The line to be built is 4½ miles long.

DETROIT, TOLEDO & IRONTON.—Eugene Zimmermann, Pres. of the Detroit, Toledo & Ironton R. R. Co., is quoted as saying that estimates have been received for building the proposed extension railroad south from Ashland into the Eastern Kentucky coal fields, and it is expected that construction will begin soon.

DETROIT, FLINT RIVER & SAGINAW VALLEY.—We are officially informed that this railway company, of which W. F. Davidson, Port Huron, Mich., is Pres., will build along the most direct route from Detroit to Saginaw Valley, via Flint. E. D. Black, Secy., 404 Dryden Bldg., Flint, writes us that contracts will be let during July.

FLORIDA.—It is reported that a movement is under way at Miakka, Fla., to secure the building of a railroad to connect with either the Atlantic Coast Line or the Seaboard Air Line. In either case about 15 miles of track will be required. The following committee has been appointed: A. M. Wilson, J. C. Betts, J. J. Crowley, George Tatum and W. A. Durrance.

GRAND TRUNK PACIFIC.—The bill granting a franchise to the Grand Trunk Pacific Ry. Co. to build branch lines is still under consideration by the Canadian Railway Committee, but is progressing rapidly. Among other amendments, the Government has proposed one which gives the list of the branch lines and stipulates the length and general direction. In all, the branch lines proposed are sixteen in number, and the total mileage as indicated by the government amendment to the bill is 4,631 miles. Among the more important branches proposed are one of 300 miles to Orillia, Ont.; one of 720 miles from the Grand Trunk Pacific to Brandon, Regina, Calgary and Turtle Mountain; one of 625 miles from the Grand Trunk Pacific main line to Yorkton and Hudson Bay; one of 390 miles from the Grand Trunk Pacific to Vancouver; and still another of 900 miles from the main line to Dawson. The amendment met with some opposition, as it was argued that the chartering of 4,600 miles of road at this time would practically tie up the country to be served by the branches until 1916. The Government, however, is supporting the bill, and it will undoubtedly pass. C. M. Hayes, Montreal, Que., is Pres., and B. B. Kelliher, Montreal, is Ch. Engr.

GREAT NORTHERN.—CAMPBELL & FERIER, Duluth, Minn., are reported to have the contract for the construction of about 80 miles of the Midland extension of the Great Northern R. R., from Neche to Portage la Prairie.

GREAT BEND & GULF.—The construction of this road will begin at once, according to press reports. Its northern terminal is Hays, Kans., and from there it runs southeast to Arkansas City, crosses the Missouri Pacific at Matherville, the Santa Fe at Great Bend, the Larned branch of the Missouri Pacific at Seward, the Kinsley cut-off of the Santa Fe at John, the Rock Island at Pratt, the Santa Fe and Orient at Harper, the Kiowa branch of the Missouri Pacific at Freeport, the Santa Fe and Rock Island at Perth, and the Santa Fe at Rome. The construction of the track will begin at Great Bend. Edward L. Peckson, of Denver, Colo., Pres. of the Denver, Kansas & Gulf R. R. Co., is reported interested.

KANSAS CITY SOUTHERN.—It is reported by the Crowley, La., papers that officials of the Kansas City Southern Ry. have confirmed the report that the company will build a line through the rice belt, via Crowley, to New Orleans. H. De W. Smith, Mansfield, La., is Dir. Engr.

LEROY & SOUTHWESTERN.—The Secretary of State of Illinois has issued a license incorporating the Leroy & Southwestern R. R. Co., which will construct a road from Leroy, McLean County, to Waynesville, Dewitt County, Ill. The incorporators are Alvin H. Shelby and J. A. Taylor, of Bloomington, Ill.; L. A. Hinton, of Normal, Ill., and George W. Shelby, of Wapella, Ill.

MISSOURI & ARKANSAS.—The St. Louis & North Arkansas R. R. Co. is to be reorganized and will probably be known in the future as the Missouri & Arkansas R. R. Co. It is the intention of the new owners to extend the line, which now runs from Seligman, Mo., to Leslie, Ark., to either Memphis or Helena on the east, and on the west to Neosho, Mo. The company will undertake about 260 miles of construction. Financial reorganization will provide for underwriting bonds to the extent of $6,000,000, and of these the capitalists formerly identified with the property headed by John Scullin, of St. Louis, will subscribe $3,000,000.

OCILLA & VALDOSTA.—A surveying corps has begun the survey on the extension of the Ocilla & Valdosta R. R. Co.'s line from Ocilla, Ga., to Macon, Ga., and the officials of the road state that work will be pushed. The distance is about 90 miles, and when the extension is completed it will give Ocilla, Fitzgerald, Rochelle, Hawkinsville and Perry the shortest line to Macon, Atlanta and other points north and west. When the road is completed to Valdosta it will also give the shortest line from Macon and other points north into Florida. T. E. Richardson, Broxton, Ga., is Ch. Engr.

PACIFIC & EASTERN.—According to advices from Ottawa, Ont., a bill to incorporate the Pacific & Eastern Ry. Co. is before the Senate Railway Committee. It is to begin at Victoria, extend to the northern end of Vancouver Island, and then cross to the mainland, first by ferry and afterward by bridge. From the Pacific Coast the line will be extended through the Yellow Head Pass to Edmonton, and thence to Fort Church, on the Hudson's Bay. The railway, as contemplated, will be 1,800 miles long, and provide the shortest route to Liverpool while Hudson's Bay is open to navigation.

PITTSBURG & TUBE CITY.—A terminal railroad, on which a number of trunk lines, including the Erie, the Shawmut and other systems, may obtain an entrance into Pittsburg is projected by a new company, known as the Pittsburg & Tube City R. R. Co., which asks for a franchise for a steam line from Try St. and Fourth Ave. eastward to the city line. Charles S. Cameron, a well-known oil man, is the chief promoter of the new line. Under the franchise agreement any road may use the line. It will cost $6,000,000. Plans and surveys have all been made.

PENNSYLVANIA.—The engineering department of the Pennsylvania R. R. Co. has decided upon plans at Greensburg in completing its four-track system on the Pittsburg division. It has been determined to rebuild the line on its present route. The work will cost approximately $8,000,000. Another project equally as extensive is the building of separate tracks for freight service. The plans call for the elimination of some tunnels, a new passenger station in Greensburg, Pa., and some important grade crossings. J. H. Nichol, Williamsport, Pa., is Div. Engr.

PITTSBURG & LAKE ERIE.—Contracts have been closed between the MIDLAND STEEL CO., of Pittsburg, and the Pittsburg & Lake Erie R. R. Co. for the building of an extension of the Pittsburg & Lake Erie to Midland, Pa., 15 miles from Beaver, Pa., work to begin as soon as contracts can be let. The Pittsburg & Lake Erie, after building to Midland, Pa., where mammoth steel plants are being erected, will operate trains to East Liverpool and Wellsville, Ohio, over the Ohio River & Northern, which is to be built at once. This line is owned by P. F. Smith and the De Armitts, of Pittsburg, and J. L. Francis, of Chicago. J. A. Atwood, Pittsburg, is Ch. Engr.

PUEBLO, OKLAHOMA & NEW ORLEANS.—This company has been chartered to build a line from Pueblo, Colo., to New Orleans, La., 1,050 miles; capital $3,500,000. The incorporators are R. A. Woolridge, W. C. Burke, George H. Dodson, Warren K. Snyder and John E. Carson, all of Oklahoma City, Okla.

RALEIGH & PIMLICO SOUND.—GOOD, HART & CO. have been awarded the contract to build 30 miles of this road, extending 15 miles east and west of Wilson, N. C.

SCHOOTIC STREAM RIVER R. R.—We are officially informed that surveys have been completed, right-of-way almost secured and capital obtained for the construction of this road from Millinocket, on the Boston & Albany, to Medway, Me. Contracts have been let to McPHAIL & MAVOR, of Millinocket. About two miles of the line will be leased by the Boston & Albany, when completed. F. W. Cram is Pres., Moses Burpee, Ch. Engr.

SEABOARD AIR LINE.—The Seaboard Air Line's proposed spur in Calhoun County, Ala., will, it is said, be 4½ miles long from Ohatchie, Ala., on the Air Line between Birmingham and Atlanta, to Chalybeate Mountain. W. L. Seddon, Portsmouth, Va., is Ch. Engr. P. H. O'BRIEN has the grading contract.

TEXAS.—The contract for the construction of the Texas Ry., which will build between San Antonio and the coast, has been let in San Antonio, by the Board of Directors, to the ROCK ISLAND CONSTRUCTION CO., of Chicago. L. A. Guerenger has been appointed Ch. Engr. of the road. Both the offices of the construction company and of Mr. Guerenger will be located at Yoakum.

WEST VIRGINIA CONNECTING.—A charter has been granted to the West Virginia Connecting R. R. Co. for the construction of a line 95 miles long, running from Belington, W. Va., where it connects with the West Virginia Central and Pittsburg Ry., to Rogersville, where a connection is to be made with the proposed Wheeling & Uniontown Short Line. Incorporators: D. F. Maroney, Farmers' Bank Building, of Pittsburg, Pa.; J. V. Thompson and Jas. H. Barnes, of Uniontown, Pa., and others.

WISCONSIN & NORTHERN.—It is reported that this company has decided to build a new line from Menosha, Wis., to North Crandon Junction, about 125 miles.

Change of Date.

The date of opening bids for the construction of a tunnel, five miles long, on the New Zealand Midland Ry., at Arthur's Pass, has been changed from June 30 to July 9. This work is advertised in Engineering News.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

NORTHPORT, N. Y.—It is stated that the Northport R. R., owned by the Long Island R. R. Co., will be extended via Ft. Salonga and Kings Park to Indian Head, on the shore of the Sound. J. R. Savage, Jamaica, is Ch. Engr.

ROCHESTER, N. Y.—The contract for the electrification of the Rochester Division of the Erie R. R. Co., between Mount Morris and Rochester, was awarded to WESTINGHOUSE, CHURCH, KERR & CO. Work on this part of the line will begin at once and covers a distance of 35 miles. The division from Avon to Corning will be the next one electrified.

A new high-speed electric line is being promoted to run between Rochester and Batavia. This road will be about 60 miles long, and will parallel the main line of the New York Central, just as the new electric road between Rochester and Lockport will parallel the Central's line between those points. The proposed road will be known as the Buffalo, Batavia & Rochester R. R., and interests connected with one of the power producing companies at Niagara Falls are behind the project. It will cost in the neighborhood of $4,000,000.

NEW YORK, N. Y.—The Commissioners appointed to examine into the proposed Gerard Ave. rapid transit route in the Bronx, John C. Coleman, Isaac Brennan and William Halpin, without commenting on the plans for the route, have reported that the railway ought to be constructed and operated. It begins at 138th St., between Third and Park Aves., where connections may be made with subways, and goes west under 138th St. to Walton Ave., then northwest to Gerard Ave., and under Gerard Ave. to 168th St., where it divides. One branch will be a subway to connect with that under Jerome Ave. at 170th St. The other line comes to the surface and unites with the Jerome Ave. elevated line at Clarke Place near 170th St.

The Commissioners appointed by the Appellate Division of the Supreme Court, to investigate and report on the proposed rapid transit railroad or railroads known as the 14th St. route, have also reported favorably. The proposed route is made up of several sections. It is to run under 14th St. from the wharf line of North River to a point between Aves. B and C, where a connection is to be made with a tunnel that is to go under East River. There is also to be a line running south under Ninth Ave., Greenwich St., Charlton St. and Washington St. to Liberty St., and east under Liberty St. to William St., where a connection is to be made with a subway running under Liberty St., Maiden Lane and the East River to Br [illegible] n. A spur also is to connect with a sub [illegible] that is to run under Liberty St. Still [illegible] r section will extend under University [illegible] and Wooster St. to Canal St., thence [illegible] Canal to Elm St., and connecting with a [illegible] way to be constructed under Centre St. [illegible] Commissioners are J. B. Pine, W. [illegible] Wadhams and James O'Farrell.

PITTSBURG, PA.—Und [illegible] title of Pittsburg, Harmony, Butler & [illegible] Castle Street Ry. Co., with a capital of [illegible],000, the following street railway lines [illegible] operating, or to be built in Allegheny, B [illegible] and Lawrence Counties, have filed notice [illegible] merger in the State Department, at Har [illegible] g. Pittsburg & Harmony, $500,000; T [illegible] ll, $250,000; Callery & Evans City, $6 [illegible] Evans City, $326,000; Butler & Harmo [illegible],000; Pittsburg, Harmony, Butler & [illegible] Castle, $300,000; Elwood City & Hazle [illegible] $300,000; Elwood City Electric, $9,000 [illegible] yne Electric, $6,000; New Castle & H [illegible] y, $200,000. The officers of the new co [illegible] are: Stanley C. Vickers, of Pittsb [illegible] Pres.; Harry Ethridge, of McKeesport, [illegible] res.; E. M. Balsinger, of Pittsburg, Secy [illegible] k G. Hibbs, of Crafton, Treas.

BALTIMORE, MD.—Elec [illegible] is to displace steam as a motive pow [illegible] n the Maryland & Pennsylvania R. R., [illegible] h runs from Baltimore to York, Pa., 79 [illegible] s, and from Baltimore to Belair, 26 mile [illegible] Gen. Alexander Brown, Baltimore, is Pr [illegible]

CHRISTIANSBURG, VA.— [illegible] S. Hogan, who is promoting an electr [illegible] ailway from Christiansburg to Cambria, [illegible] writes us that surveys have been compl [illegible] d and right-of-way and water power secu [illegible] Line will be 2¼ miles long. Contracts are to be let within two months.

GREENSBORO, N. C.—J. [illegible] Dawes, Ch. Engr. of the Greensboro & H [illegible] Point Interurban Ry. Co., writes us that contracts for the construction of this road have been let. W. D. Pender, Norfolk, Va., is Pres.

ATLANTA, GA.—The Georgia Ry. & Electric Co. has given notice that it will apply for a franchise to build an extension on Whitehall St. and Stewart Ave. to the city limits. P. S. Arkwright, Atlanta, is Pres.

GAINESVILLE, GA.—We are officially informed that surveys have been made and right-of-way is being secured for the 80-mile interurban line of the Atlanta, Buford & Gainesville Ry. Co., from Atlanta to Norcross and Gainesville. H. D. Jaquish, Gainesville, is Pres.

GULFPORT, MISS.—The Gulfport & Mississippi Coast Traction Co. has connected up its track from Gulfport to Biloxi, Miss., 12 miles, and it is to be put in operation immediately. About an equal amount of line is yet to be built to Pass Christian. Capt. J. T. Jones, Gulfport, is Pres.

CLEVELAND, OHIO.—We are officially informed that the Cleveland & Sharon Traction Co., which was headed by Francis B. Morgan and others, and did considerable grading about two years ago for a line from Middlefield to Sharon, Pa., has been reorganized under the name of the Cleveland & Sharon Electric R. R. Co. A contract has been placed with the ELDENBEL CONSTRUCTION CO., of New York, for the construction and equipping of the new line, and that equipment for the power station and overhead work will be done by the GENERAL ELECTRIC CO. The central power station will probably be located at Middlefield. The proposed Warren, Cortland & Jefferson line, a north and south road, which was to be operated with the other road, is also stated to have been taken over, and will be built by the same people. The road will enter Cleveland from Middlefield over the Eastern Ohio Traction Co.'s northern division. Eventually direct connection will be made for Pittsburg over a line from Pittsburg to Sharon. J. B. Cahoon, Cleveland, Ohio, is Ch. Engr.

LEAVITTSBURG, OHIO.—It is stated that the Mahoning & Shenango Valley Traction Co. will shortly place contracts for the connecting link between its line and that of the Eastern Ohio Traction Co. The line will extend from Leavittsburg to Garrettsville, a distance of 13 miles. The Eastern Ohio Co. is reported to have agreed to take up its present line between Chagrin Falls and Hiram, and build in a straight line between these points, thus saving about six miles over the present route.

TOLEDO, OHIO.—The Toledo Urban & Interurban Ry. Co. is preparing to offer better facilities for the through Dayton-Toledo Limited service, which was instituted recently. Six right-angle curves north of Findlay are to be lengthened so that they can be taken at high speed. When these improvements are completed, it is probable that the running time for 162 miles will be cut down to 5½ hours. A. J. Becht, Cincinnati, Ohio, is Secy. and Treas.

INDIANAPOLIS, IND.—The contract for grading the Plainfield extension of the Indianapolis & Danville electric line has been let to H. P. HENDERSON, of Chicago, for the track work to JNO. P. ADAMS, of Columbus, and for the overhead wiring, etc., to D. H. ROBINSON, of Indianapolis.

EAST ST. LOUIS, ILL.—The St. Louis & Northeastern Electric Ry. Co. has begun the construction of its track in East St. Louis. The SOUTHERN ILLINOIS CONSTRUCTION CO., of this city, has contract for the concrete and brick work, and the RICH CONSTRUCTION CO. has the contract for the grading. George H. Meck is Asst. City Engr.

MURPHYSBORO, ILL.—The Southern Illinois Transit Co. has been incorporated and will build a line from Murphysboro, through Carbondale and Caterville, to Herrin. The incorporators are: Philip Decker, A. J. Woodward, John L. Cox, W. F. Hughes and R. A. McCord, all of Murphysboro.

SEDALIA, MO.—B. H. Colby, Security Building, St. Louis, Ch. Engr. of the Missouri Interurban Ry. Co., writes us that surveys are completed and two-thirds of the right-of-way secured for this line, which is to be 80 miles long and extend from Jefferson City to Sedalia.

GAINESV[illegible]LE, TEX.—It is reported that engineers [illegible] the Gainesville, Whitesboro & Sherman [illegible]tric Interurban Ry. have finished a pa[illegible] the survey, and that construction will b[illegible] by June 15. G. A. Hassinger, of New O[illegible]ns, is Pres., and John King is V.-Pres. a[illegible] Gen. Mgr.

SAN A[illegible]NIO, TEX.—Regarding the proposed con[illegible]tion of a street railway in this city, Will[illegible] Morris, Kampmann Bldg., writes as follow[illegible] "There is in our Fourth Ward a broad sec[illegible] of territory, with eight or ten thousand [illegible]abitants, without adequate car service. [illegible]e months ago a club was organized, kno[illegible] as Fourth Ward Improvement Club, for [illegible] purpose of inducing our present trac[illegible] company to construct a line through [illegible] territory. The company's representati[illegible] investigated the proposed route, but no d[illegible]te answer or action having been had, the [illegible]b held another meeting recently, at which [illegible]e Lewis Maverick, of this city, represent[illegible] certain promoters, proposed that his clien[illegible] build an independent car line. The matt[illegible] was referred to a committee, with power to [illegible]-operate with the present company, a[illegible] with Mr. Maverick, with instructions to [illegible]cure best service obtainable in shortest [illegible]ible time.

NEWK[illegible]K, OKLA.—It is reported that Thos. A. [illegible]ith and Moses P. Brown, representing [illegible] Newkirk, Tonkawa & Southern Electric [illegible], an interurban company which has its h[illegible]quarters here, have received from the Cou[illegible] Commissioners a franchise for the use o[illegible] the public roads for the construction of th[illegible] line. Similar franchises have been obtained in Kay, Noble and Logan Counties. The company is planning an interurban line from Newkirk to Oklahoma City via Tonkawa, Billings, Munlhall and Guthrie.

OKLAHOMA CITY, OKLA.—John W. Shartell, Gen. Mgr. of the Oklahoma Ry. Co., is reported as saying that four miles of extensions will be constructed immediately in this city, and that 15 miles will be completed in the city before the end of the year.

SPOKANE, WASH.—F. A. Blackwell, chairman of Finance Committee, states that the Inland Empire Ry. Co. will have an electric railway in operation to Lake Pond d'Oreille, Idaho, inside of a year. The line will be 56 miles long. A plot of 1,700 acres has been bought on Squaw Bay for terminals.

PORTLAND, ORE.—The Portland Ry. Co., it is reported, will spend $350,000 in improvements this year. Full groove rails are to be laid on Second St. from Flanders to Montgomery Sts., on which work has commenced. Street is to be paved with bithulithic material, company paving portion between tracks with stone blocks. Milwaukee Ave. is being double-tracked from Holgate St. to the Crematorium, and second track is being laid along river bank from Madison St. bridge to the Oakes. Heavy rails to be laid on Union Ave.

LOS ANGELES, CAL.—It is reported that orders have been given by Henry E. Huntington, 71 Broadway, N. Y., Pres. of the Pacific Electric Ry Co., to begin work at once on the project for four-tracking the Long Beach line of the system as far as Watts Station, and to rush operations to completion as rapidly as can be done. This will give Los Angeles the only four-track trolley line west of New York, and will be the culmination of plans that have been under consideration for nearly a year. More than eight miles of double track will be built, and the right-of-way has already been secured. After the work of four-tracking to Watts has been completed the next step will be that of building a line from Santa Ana to Newport Bay, to connect with the line just completed to that point from Newport Beach, and known as the East Newport branch. A. D. Schindler, Los Angeles, is Gen. Mgr.; Geo. E. Pillsbury, Los Angeles, is Ch. Engr.

SAN BERNARDINO, CAL.—We are informed that right-of-way has been secured and surveys will be begun at once on the extension of the San Bernardino Valley Traction Co.'s line to Arrowhead. W. H. Smith is Gen. Mgr.

NAPA, CAL.—The San Francisco, Vallejo & Napa Valley R. R. Co. has been incorporated with a capital of $1,500,000, and will build a line through Napa Valley from Napa to St. Helena and Calistoga, together with a number of spurs. Construction work is to begin at once. The directors are W. F. Botsford, of Los Angeles; Z. J. Hatch, of Oakland; L. J. Peroy and J. T. York, of Napa, and T. W. Hatch, of Vallejo.

MARYSVILLE, CAL.—Promoters of the Marysville-Downiesville Electric Ry. here announced that construction work will begin as soon as this city has raised $10,000, which is to be used by the company for the purpose of issuing stock and incorporating. Capital has been interested and the stock subscribed for. The road will ultimately extend to Meridian, on the Sacramento River. C. S. Brook is Chn. of a committee which will raise the money. W. I. Redding represents the company.

TORONTO, ONT.—The Toronto & York Radial Railway bill passed the Railway Committee of the Legislature with a few important amendments. The bill gives the power of construction, operation and extension in respect to the Toronto & Scarboro Electric Ry., the Toronto & Mimico Ry. & Light Co., and the Metropolitan Electric Ry. Co., the charters and franchise of which have been acquired by the Toronto & York Radial Electric Co. W. H. Moore, Toronto, is Gen. Mgr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

FORT STRONG (Boston post-office), MASS.—Bids are asked until June 15 by Capt. George L. Goodale, Constr. Q.-M., for installing electric light fixtures in buildings at Fort Strong.

TROY, N. Y.—The Board of Contract and Supply has let contracts to the BEACON ELECTRIC LIGHT CO. and the TROY GAS CO. for lighting the streets, at $94.90 a year per arc lamp, and $1.10 per 1,000 ft. for gas.

TOMKINSVILLE, N. Y.—Bids are asked until 1 p. m., June 28, for furnishing miscellaneous articles for the lighthouse establishment, for the fiscal year ending June 30, 1907.

ALBANY, N. Y.—The Witherbee Sherman Co., of Fort Henry, has arranged with H. C. Pelton, Arch., 1133 Broadway, New York, to erect a private lighting plant, consisting of two buildings of one and four stories respectively.

FROST & CHELTON have been awarded the contract for installing an electric lighting plant for S. L. Munson. A 35-KW. Westinghouse generator will be installed, complete with switch board, foundations and all connections.

GOVERNOR'S ISLAND (New York post-office), N. Y.—Bids, in triplicate, are asked until 11 a. m., June 22, for installing steam heating system in the post hospital. Capt. M. N. Falls is Constr. Q. M. (Advertised, Engineering News.)

PAULSBORO, N. J.—Paulsboro has decided to build its own municipal gas plant and has issued $30,000 of bonds for this purpose.

PHILADELPHIA, PA.—The JOHN W. ALLISON CO., Land Title Bldg., has been awarded a contract by the Philadelphia Rapid Transit Co. to put in a reinforced concrete floor on steel beams and to make a roof of reinforced concrete to the substation of a powerhouse at the northwest corner of 58th St. and Woodland Ave., at a cost of $7,000. R. C. Heath is Arch., Philadelphia.

CLARKSVILLE, VA.—A company has been formed, to be called the Eagle Falls Light & Power Corporation, which proposes to develop the Eagle Falls water power, about eight miles from Clarksville, on the Roanoke River. The capital of the corporation is $5,000,000, and its officers are Henry G. Merry, Equitable Bldg., Baltimore, Md.; Paul T. Brady, 60 Wall St., New York, N. Y., and Oliver T. Smith, New York.

GOOD WATER, ALA.—The Council proposes to erect an electric light plant at Good Water, to cost from $12,000 to $15,000. J. L. Gilliland is president of Council; Hall Bros., of Atlanta, Ga., are Engrs.

MEMPHIS, TENN.—The LaClede Gas Co. of St. Louis, Mo., has purchased a site at a cost of $25,000 and will erect a $60,000 electric light plant here.

KOKOMO, IND.—The City Council is preparing to advertise for a company to accept a franchise and construct a gas plant, to furnish gas at 75 cts. 1,000 ft.

CHICAGO, ILL.—The General Electric Co. is negotiating with the Drainage Board relative to a lease of water power, on the Sanitary District channel, near the Belt R. R. bridge, to operate the plant it proposes to build.

HARVARD, NEBR.—G. A. Herozozg has procured a franchise for the establishment of a gas plant in Harvard.

RAPID CITY, S. D.—Plans are being made for an electric plant to be installed on Rapid Creek near the mouth of Deer Creek, for the purpose of furnishing power for an electric road to be built from the Yellow Jacket District to connect with the Missouri River & Northwestern R. R.

THOMPSON, MONT.—An electric plant, to cost $2,000,000, is to be installed at Thompson Falls, on the Clark's Fork River, and will supply Coeur d'Alene County with power. E. H. Williams is interested.

ST. LOUIS, MO.—The Village Council of Grafton has granted a franchise for an electric light plant in that village to L. T. Westrich. A company has been organized with a capital of $10,000 to build the plant.

MARBLE FALLS, TEX.—An electric light and power plant is to be established here. The falls in the Colorado River will be utilized.

AUSTIN, TEX.—Bids are asked until 3 p. m., June 25, by James Knox Taylor, Superv. Arch., Washington, D. C., for heating apparatus for the U. S. court-house and post-office building at Austin.

DECKER, TEX.—Arrangements are being made to construct a power plant near Decker, to cost $600,000. A dam is to be built from which 25,000 HP. will be developed. Eugene Rush is interested.

SHERMAN, TEX.—Bids are asked until 3 p. m., July 11, by James Knox Taylor, Superv. Arch., Treas. Dept., Washington, D. C., for low pressure steam heating apparatus for the U. S. post-office and court-house building at Sherman.

OKLAHOMA CITY, OKLA.—R. C. Alexander, of Abilene, Tex., wishes to communicate with builders of gas plants concerning a plant in Oklahoma, and perhaps elsewhere, for town of 10,000.

CLAREMONT, IND. T.—The Caney River Gas Co. has been chartered with a capital of $1,000,000. The incorporators are: A. W. Leonard, Randolph Shirk and J. H. Evans.

TULSA, IND. T.—Articles of incorporation have been filed by the Caney River Gas Co. of Tulsa, capital $250,000, by Archie W. Leonard and others.

YREKA, CAL.—The Weed Lumber Co. will construct a concrete power house, in which an 800-HP. engine will be installed.

ELK CITY, IDAHO.—It is reported that a power plant will be erected on Salmon River, near the mouth of Crooked River, for supplying the nearby mining districts and operating mills in Elk City, Dixie and Buffalo. Estimated cost, $200,000.

CHATHAM, N. B.—It is reported that bids will soon be asked for remodelling the electric light plant here. Estimated cost, $20,650.

MONTREAL, QUE.—The Montreal Light, Heat & Power Co. has plans for a 15,000-HP. electrical power plant to be erected at Cedar Rapids at a cost of approximately $1,500,000. W. McLea Walbank is Vice-Pres. and Ch. Engr., Montreal.

FORT FRANCIS, ONT.—Fort Francis is to have a complete system of waterworks, sewerage and electric light, to cost about $57,000. John Galt, of Toronto, is Consul. Engr.

LONDON, ONT.—International Electric Co., London, has been incorporated with a capital of $100,000 by F. H. Potts, A. R. Bickerstaff, G. Stevenson, E. McKenzie, R. K. McIntosh, W. H. Holland and M. G. Carrol, Toronto.

ST. THOMAS, ONT.—The City Council has decided to issue $30,000 of bonds for extension of gas mains, etc.

WINDSOR, ONT.—The Commercial Gas Co., Windsor, has been incorporated with a capital of $40,000 by E. Wigle, C. L. Meyer Windsor; W. P. Hickey, E. Wigle, G. A. Brown, Leamington.

LACOMBE, ALTA.—The Council has let contract to the BLINDMAN RIVER ELECTRIC CO. to light the town and supply power. The company will at once commence the construction of a plant here.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

MAGNOLIA, MASS.—W. H. CLARK has been awarded the contract for an overhead cement bridge to be built by the Boston & Maine R. R. Co. at Magnolia. J. P. Snow, Boston, is Bridge Engr.

BOSTON, MASS.—The present bridge at Neponset is to be removed, to make room for a modern stone one, which will carry four tracks and will cost about $400,000.

MEDFORD, MASS.—Bids received June 4, 1906, for building a reinforced concrete bridge and approaches near the Armory, Mystic River Reservation, Medford, are as follows: F. S. & A. D. Gore, Corporation, Boston, Mass., $49,126; Falvey & Kelley, Boston, $45,784; W. H. Ward, Lowell, $41,435; R. F. Hudson, Melrose, $39,568; Woodbury & Leighton Co., Boston, $38,129; Ruggles & Fallon, Boston, $36,557; T. H. Gill & Co., Boston, $34,741; M. McDonough, Swampscott, $34,132; Coleman Bros., 15 Court Sq., Boston, $28,821.

WOONSOCKET, R. I.—Bids are asked until 4 p. m., June 22, by Stephen Magown, Chn. Committee on Streets and Bridges, for building concrete and steel bridge on South Main St., Woonsocket. Frank H. Mills is City Engr. (Advertised Engineering News.)

ALBANY, N. Y.—See under Miscellaneous. (Barge canal.)

NEWARK, N. J.—Bids are asked until 4 p. m., June 21, by the Boards of Chosen Freeholders of Essex and Hudson Counties, Frank E. Ward, Chn., for constructing a bridge over the Passaic River, at the foot of Clay St., Newark, to the foot of Central Ave., East Newark. (Advertised Engineering News.)

DOYLESTOWN, PA.—Bids are asked until June 25, by the Commissioners of Bucks County, for construction of bridge to replace one recently destroyed by fire, over the Tohickon River, between Redminster and Tinicum Townships. W. Cadwallader is Clk.

PITTSBURG, PA.—Bids are asked until noon, June 20, by F. P. Booth, Controller of Allegheny County, for two steel beam bridges, three through plate bridges and one stone arch bridge.

WILMINGTON, DEL.—We are officially advised that the bids received June 11 by the Water Department, Theodore A. Leisen, Ch. Engr., for a concrete bridge over Brandywine Creek. 353 ft. long, were as follows: John A. Kelley Co., Pennsylvania Bldg., Philadelphia, Pa., $36,000; Culgin-Pace Contracting Co., 78 Tremont Ave., New York, N. Y., $36,950; New York-San Francisco Construction Co., 234 Fifth Ave., New York, $39,475; Thomas B. Bryson, 60 Wall St., New York, $39,970; A. S. Reed & Bro. Co., Wilmington, $53,000; The Scofield Co., Pennsylvania Bldg., Philadelphia, $64,521.

WELDON, N. C.—The Halifax & Northampton Bridge Co. has been organized by T. C. Harrison, W. T. Joyner, M. L. Steadman and W. H. S. Burgwyn. The company will erect a bridge connecting Halifax and Northampton Counties across the Roanoke River at Weldon.

CHARLOTTE, N. C.—The Seaboard Air Line Ry. will construct a $30,000 bridge over North Tryon St., Charlotte.

VANCLEAVE, MISS.—The Board of Supervisors has awarded to the GEORGE E. KING BRIDGE CO., of Des Moines, Iowa, the contract to build a steel bridge over Bluff Creek at Vancleave.

COSHOCTON, OHIO.—Bids are asked until noon, June 22, by the County Commissioners, for erecting three steel bridges with 60, 70 and 97-ft. spans, and concrete floors. George J. Buck, Jr., is County Surv.; C. R. Randles is County Audr.

WARREN, OHIO.—Bids are asked until noon, June 20, by the Commissioners of Turnbull County, for erecting a bridge over Duck Creek. C. C. Clawson is Audr.

WASHINGTON C. H., OHIO.—Bids are asked until noon, June 23, by H. D. Chaffin, County Audr., for building a bridge over Bridge Run, on Robinson Road; also for concrete box culvert on Columbus Road. Frank M. Kennedy is County Surv.

ROCKVILLE, IND.—We are officially advised that contracts for bridge building have been let by the Commissioners of Parks County as follows: 190-ft. span wooden bridge, J. L. VANFOSSAN, Bridgeton, Ind., at $5,690; 150-ft. span wooden bridge and concrete arch, FRANKFORT CONSTRUCTION CO., Frankfort, Ind., $5,428; 90-ft. span wooden bridge, D. M. BROWN, Tangier, Ind., $2,445.

RICHMOND, IND.—The Commissioners of Wayne County will soon ask for bids for construction of a bridge over Whitewater River at Graces Ford, in Center Township.

NORTH CHICAGO, ILL.—Bids were opened at the office of the Bureau of Navigation, Navy Dept., Washington, D. C., June 7, for (a) construction of a main bridge and (b) a pipe conduit bridge at the Naval Training Station, Great Lakes, North Chicago, Ill. The following are the bids: Lafayette Bridge Co., Lafayette, Ind., (a) $27,967, (b) $5,314; Joliet Bridge & Iron Co., Joliet, Ill., (a) $35,692, (b) $5,775; Harry E. Overstreet, Chicago, Ill., (a) $30,680, (b) $6,454.

LOCKPORT, ILL.—We are officially advised that the following are the bids received on June 6 for complete superstructure of viaduct over Deep Run and the Atchison, Topeka & Santa Fe R. R., near this city: Jackson & Corbett Bridge & Steel Co., 80 Mendell St., Chicago, $15,400; Roundheld & Gallery Co., Chicago, $15,484; Chicago Bridge & Iron Co., 105th and Throop Sts., Chicago, $16,800; Strobel Steel Construction Co., 1744 Monadnock Block, Chicago, $17,537; Morava Construction Co., Marquette Bldg., Chicago, $18,283; Joliet Bridge & Iron Co., Joliet, $18,390.

PEORIA, ILL.—Following are the bids received by the City Council for a bascule bridge: The Cowing Engineering Co., steel bridge, $166,179; the Strauss Bascule Bridge Co., Toledo, Ohio, $221,000; Concrete Steel Engineering Co., New York, N. Y., about $200,000; Marsh Bridge Co., Des Moines, Iowa, $156,891 (no estimate for bascule). D. H. Roberts is Asst. City Engr.

MORTON, ILL.—The Illinois Traction Co. has let the contract for building the 150-ft. bridge over the Vandalia R. R. at Morton to the DECATUR BRIDGE CO.

FLORENCE, NEBR.—J. B. and O. A. Denton have been granted a license to build a 60-ft. bridge over Pigeon Creek, east of Florence.

BUTLER, MO.—Bids are asked until June 19, by E. B. Borron, Engr., for construction of two steel bridges, with 140-ft. spans, nine with 100-ft. spans, three with 50-ft. spans and two with 40-ft. spans.

HOOD RIVER, ORE.—Bids are asked until June 30, by the Secy. of the Farmers' Irrigation Co., for construction of bridge over Hood River.

SAN DIEGO, CAL.—Plans are being prepared for a bridge over the San Diego River, opposite the old County Hospital, to cost about $15,000. The bridge will be 400 ft. long and will consist of four 100-ft. spans. G. A. D'Hemecourt is City Engr.

OXNARD, CAL.—Work will be begun shortly on a new steel bridge on the Southern Pacific main line over the Santa Clara River, between Montalvo and Oxnard.

MONTREAL, QUE.—English capitalists are planning to construct a bridge over the St. Lawrence, to connect Montreal and Longueuil. Estimated cost, $11,000,000.

CORNWALL, ONT.—Bids are asked until June 15, by the Department of Railways and Canals, for building concrete superstructure for the wooden piers at the entrance of the Murray Canal, and reinforced concrete bridges to span the openings between the piers. L. K. Jones is Secy.

TORONTO, ONT.—By-laws have been passed by the Council here, authorizing the expenditure of $195,000 on a high-level bridge.

BRACEBRIDGE, ONT.—The HAMILTON BRIDGE CO., Hamilton, has been awarded contracts for erecting bridges at Bracebridge and Lake of Bays, at $14,000 and $31,000, respectively.

CORNWALL, ONT.—Bids are asked until June 18 and July 18 for erecting seven bridges, of concrete and steel, from 30 to 90 ft. long. Estimated cost, $17,000. W. H. Magwood is City Engr.

BRANDON, MAN.—Bids are asked until 6 p. m., July 3, by the City of Brandon, for constructing a steel highway and electric railway bridge across the Assiniboine River, on 18th St. W. H. Shillinglaw is City Engr. (Advertised Engineering News.)

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Contract for the building of the superstructure for the new county court house has been awarded to F. W. CUNNINGHAM & SONS, at $443,890.

BOSTON, MASS.—Bids are asked until June 21, by the Schoolhouse Commissioners, for building an extension to the Mechanic Arts High School, on Scootic St. R. C. Sturgis is Chn.

BUFFALO, N. Y.—The following bids have been received by the Board of Supervisors of Erie County for furnishing new lockers at the 65th Regiment Armory: Van Dorn Iron Works Co., Cleveland, $73,773, less $6,073 if swinging doors are substituted; Art Metal Construction Co., Jamestown, $70,000, less $36,020 if swinging doors are substituted; Merritt & Co., Philadelphia, on three samples substituted, (a) $12,901, (b) $13,203, (c) $12,718.

NEW YORK, N. Y.—Contract for building foundations for the Seligman Building, corner of William and Stone Sts., has been awarded to the FOUNDATION CO., 35 Nassau St.

Board of Estimate has appropriated $2,000,000 to cover the cost of rebuilding unsanitary police stations in Manhattan Borough.

Edward B. Kinsila, of London, has purchased a site and will erect a music hall to cost $1,250,000 at 117 West 42d St. Construction will begin in October.

T. H. Poole & Co., Archs., 13 West 30th St., have prepared plans for the construction of a $125,000 1-story brick and stone church, 80 × 148 ft., at Schermerhorn and Bond Sts., for Rev. Richard S. Foley, 30 Debevoise Place.

General contract for the erection of a residence for Robert S. Brewster, at 11 East 54th St., 5 stories, Indiana limestone, brick, terra cotta and granite, 35 × 76 ft., to cost about $150,000, has been awarded to CHARLES T. WILLS, 156 Fifth Ave. Delano & Aldrich, 4 East 39th St., are Archs.

The following bids have been received by John H. O'Brien, Fire Comr.: For alterations to building at 165 West 29th St., Tolmie & Kerr, 205 West 30th St., were low bidders, at $26,587; for alterations to building at Siegel St. and Graham Ave., Brooklyn Borough, Geo. Hildebrand, 38 Park Row, was low bidder, at $25,630; for alterations to building on Hull St., near Stone Ave., Brooklyn, Tolmie & Kerr were low, at $26,375.

WHITE PLAINS, N. Y.—The Board of Supervisors, it is stated, on May 28, awarded the contract to erect an addition to the court house to JOHN V. SCHAEFFER & CO., 9 East 59th St., New York, at $310,000, for limestone, and the contract for the plumbing of same to WM. RUBLEY, of Tuckahoe, at $9,435. The specifications for the ventilating and heating, it is stated, are to be so altered as to lessen the cost.

TRENTON, N. J.—LEWIS LAWTON & SON, of Trenton, have been awarded the contract for building the new wing at the State House, at $82,997.

HOBOKEN, N. J.—Contracts for the construction of School No. 9, at Madison, Monroe and Second Sts., have been awarded as follows: Mason work, CALUMET CONSTRUCTION CO., $118,873; carpenter work, ROBERT J. ROTH, $29,200; heating and ventilating, AMERICAN HEATING & VENTILATING CO., at $19,722. These, together with smaller contracts, make the total cost of construction $182,738. Eugene Ciccarelli is Arch.

LANCASTER, PA.—John B. Warfel, V.-Pres. Thaddeus Stevens Industrial School, writes that the contract for erecting its building has been awarded to D. H. RAPP, of Lancaster, at $59,023.

WASHINGTON, PA.—The City Hospital Association of Washington will build a hospital to cost $100,000. George M. Kelly, G. B. Woods and J. A. Patterson form the committee in charge.

PHILADELPHIA, PA.—The Supervising Architect of the Treasury has awarded to D. A. McCLELLAND, 1233 Arch St., Philadelphia, contract for the construction of a lookout gallery in the post office building, Philadelphia.

STACY REEVES & SONS, 1611 Filbert St., have secured the contract to erect a library at the Divinity School of the P. E. Church, 51st St. and Woodland Ave.

Savery, Sheetz & Savery, Archs., Stephen Girard Bldg., have plans prepared and are taking bids for the erection of a 6-story apartment hotel, 50 × 300 ft., with wings 50 × 130, 60 × 112 and 50 × 100 ft., to be built at Wayne Ave. and Tulpehocken St. Estimated cost is $1,000,000.

BALTIMORE, MD.—JOHN E. MARSHALL & SON have been awarded the contract to erect a bank building at 23 South St. for Owen, Daly & Co., bankers. Archer & Allen, 47 Central Savings Bank Bldg., are Archs.

The following bids were received by the Board of Awards for inclosures for the corridors in the City Jail: M. C. Davis, $15,610; Van Dorn Iron Works, $10,646; Chesapeake Iron Works, $12,960, and Dietrich Bros., $11,960.

Plans have been prepared by Simonson & Pietsch, Archs., American Bldg., for the new buildings to be erected at Bayview Hospital, including an administration building, morgue building, four ward pavilion buildings, laundry, etc. Cost $125,000.

NORCROSS BROS., 10 East Worcester St., Worcester, Mass., have received contract for the construction of a brick and stone, fireproof, one-story bank building, for the Metropolitan Savings Bank, at Charles and Saratoga Sts. The structure will cost $200,000, and will be 40 × 70 ft. Parker & Thomas, Union Trust Bldg., are Archs.

WASHINGTON, D. C.—Bids will soon be asked for the construction of a brick and terra cotta fireproof office building, nine stories and basement, 29 × 86 ft., at 14th and F Sts. The building is owned by a company represented by Westcott & Story, 816 17th St., N. W., and will cost about $200,000. Henry L. A. Jenkel, Boston, Mass., is Arch.

A. Golner, Arch., Bliss Bldg., has prepared plans for an apartment house to be erected at First and B Sts., by Alonzo O. Bliss, at a cost of $100,000.

B. S. Simmons, Arch., 931 F St., N. W., is preparing plans for club house for the B. P. O. Elks. Brick, stone and steel, fireproof, three stories. Cost, $125,000.

LENOIR, N. C.—The PAULY JAIL BUILDING CO., of St. Louis, Mo., has been awarded the contract to erect a jail, including the furnishing of steel cells, at $13,000.

ATLANTA, GA.—The contract to erect a freight depot for the Louisville & Nashville R. R. has been awarded to the FERRO CONCRETE CONSTRUCTION CO., of Cincinnati.

PENSACOLA, FLA.—Bids are asked until June 26 for erecting a city hall. Chas. H. Bliss is Mayor. F. Ausfeld, of Montgomery, Ala., is Arch.

JACKSON, MISS.—The Board of Trustees of the State Hospital for Insane, at Jackson, Miss., have elected John T. Willis, Superintendent of Construction, and no general contract will be let for the erection of new buildings and improvements, for which $100,000 was appropriated by the last Legislature. All inquiries for opportunities to bid upon supplies and labor should be addressed to the Superintendent, at Asylum, Miss.

MEMPHIS, TENN.—OLSON & LESH have secured the contract to erect the Memphis Business Men's Club House, at 87 Monroe St., a 6-story fireproof structure, at $110,000.

COLUMBUS, OHIO.—The Board of Education will authorize a bond issue of $250,000, and has ordered plans drawn for two school houses, one to cost $125,000 and the other $165,000.

The Board of Trustees of the Ohio State University are having plans prepared for new buildings to be erected at a cost of $200,000.

CLEVELAND, OHIO.—Bids are asked until July 2, by the Board of Education, for constructing a third story to Doan School. Bids to be submitted separately or as a whole on the following: Terra cotta, carpentry, sheet metal work, iron and steel, roofing, ventilating and heating, plumbing and gas fitting, fireproofing, electric wiring, cement and granolithic floors and base, etc. Geo. F. Meyers is Clk.

DETROIT, MICH.—D. H. Burnham & Co., Archs., 1417 Railway Exchange Bldg., Chicago, are completing plans for a bank and office building to be built at Griswold and Congress Aves., Detroit, for Edward Ford, of Toledo, Ohio. It will be 18 stories, 140 x 110 ft., of steel construction, fireproof, and cost $1,000,000.

CHICAGO, ILL.—Iver C. Zarbell, Arch., 97 Clark St., expects to let contracts shortly for an apartment building at the northwest corner of North Hamlin and Park Aves. for S. H. Wheeler, Room 306, 59 Dearborn St. It will be 3 stories, 240 × 80 ft., and cost about $120,000.

THE JOHN PIERCE CO. has the contract for marble work on the court house, at $341,300. The only other bid was from the Peoria Marble Works, at $352,223.

John W. Eaglestone, Arch., 100 Washington St., let the masonry to WILLIAM RITCHIE, 112 Clark St.; cut stone to A. F. GIBSON & CO., 3327 La Salle St.; carpentry to JOHN CARNEGIE, 112 Clark St., for an apartment building at Michigan Ave. and 56th St. Cost, $75,000.

J. P. & J. W. O'CONNOR, 807 Security Bldg., were awarded the contract for the masonry and foundations for the Mentor store and office building to be built at the corner of State and Monroe Sts. for Eugene S. Pike, 604 First National Bank Bldg. It will be 16 stories, 46 × 83 ft., and cost $400,000. JOHN M. EWER & CO., 740 Rookery Bldg., have the general contract. Howard Shaw, 175 Dearborn St., is Arch.

Worthmann & Steinbach, Archs., 625 West Chicago Ave., let the masonry to THEODORE OSTROWSKI, 711 Dickson St., and cut stone to T. C. DIENER & CO., 346 West 21st St., for a parochial building to be built at the northeast corner of Noble and Bradley Sts., for St. Stanislaus Church. It will be 3 stories, 160 × 160 ft., and cost $120,000.

ST. PAUL, MINN.—The St. Paul Masonic Temple Association, A. Guthrie, Pres., 202 National German-American Bank Bldg., is about to begin the erection of a new building at Fourth and Market Sts., to cost $150,000.

The Hackett, Walther, Gates Co., 280 East Fourth St., is contemplating the erection of a $100,000 6-story brick and stone addition.

Lindeke, Warner & Co., Sibley and Fourth Sts., will shortly begin the erection of a 7-story brick and stone wholesale building, 164 × 230 ft., on Fourth St., near Broadway. Estimated cost, $350,000. Louis Lockwood, 503 German-American Bank Bldg., is Arch.

MINNEAPOLIS, MINN.—C. F. HAGLIN, 228 Lumber Exchange, has been awarded the contract to erect a 6-story and office building at Fifth St. and Nicollet Ave. for Yerxa Bros. & Co., at a cost of about $250,000.

WICHITA, KANS.—The WURSTER CONSTRUCTION CO., of St. Louis, Mo., has been awarded the contract for erecting a $150,000 6-story brick business building for Wallerstein & Cohn.

OMAHA, NEBR.—The CAPITAL CITY BRICK & PIPE CO. has been awarded the contract for erecting a $400,000 8-story jobbing house, 132 × 284 ft., on Ninth St., near Farnum St., for M. E. Smith & Co., 11th and Howard Sts. Thomas L. Kimball, McCague Bldg., is Arch.

ST. LOUIS, MO.—Moses Fraley, Pres. of the Temple Israel congregation, announces the purchase of the site, 100 × 150 ft., at King's Highway and Washington Boulevard. A new temple will be erected at a cost of about $150,000.

Application has been filed for a permit to erect a building at Kensington Ave. and Union Boulevard, for the Pilgrim Congregational Church at an estimated cost of $200,000.

DENVER, COLO.—Wm. Cowe, Arch., 510 Mack Block, is preparing plans for a 6-story building for the Excelsior Club Association, to be erected at 14th and Stout Sts., at a cost of $200,000.

Plans are being drawn by Gove & Walsh, Archs., 505 McPhee Bldg., for an 8-story building, 125 × 150 ft., to be erected by the Denver Gas & Electric Co., at 15th St. and Cleveland Place, at an estimated cost of $500,000.

SPOKANE, WASH.—The Marshall-Wells Hardware Co., of Duluth, Minn., has purchased a site and will erect a 6-story wholesale business block.

Bids are asked until June 16 by the Board of Public Works for the structural steel for the Municipal Building, Fifth St. and Yesler Way; also until July 14 on the following for said building: Excavation; concrete, etc.; stone, masonry, carpentry, roofing, etc.; elevators; ventilating and steam heating; plumbing, etc.

SACRAMENTO, CAL.—The contract for building the new high school is reported to have been awarded to R. A. HEROLD, Stoll Block, the architect who designed the building.

SAN FRANCISCO, CAL.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to the SANITARY DEVICES MANUFACTURING CO., 11 East 24th St., New York, contract for installing a vacuum cleaning system in the U. S. Court House and Post Office at San Francisco, at $5,450.

J. R. Hiller and G. T. de Colmesnil are Archs. for the new 8-story hotel building, "The Oaks," 80 × 97 ft., to be erected at Third and Minna Sts. It will be constructed entirely of concrete and steel and will contain 210 rooms.

Robt. Morrow has announced that he will erect the Addison Head, a 12-story, steel and stone store and office building, at Grant Ave. and Post St., according to plans prepared by Wm. Curlett, Arch., of San Francisco.

Cunningham & Politeo, Archs., have prepared plans for a 10-story fireproof building to be erected on Market St., by H. H. & M. S. Bancroft.

F. A. Hihn has had plans prepared for an office building to be erected on the corner of Bush and Kearny Sts., the site of the old Chronicle Building. The building will be 12 stories high, with basement and sub-basement, steel frame, with stone and re-enforced concrete walls. The cost will be $350,000. W. H. Weeks is Arch.

The first steel building for Mission St. will be that to be erected by Scott & Van Arsdale, the millionaire lumber men. This building will be erected on the site of the recently destroyed Scott & Van Arsdale Bldg., on Mission St., between Third and Fourth Sts. The new structure will be 12 stories high and will be 106 × 160 ft., extending to Jessie St. O. Frank Oliver and E. T. Foulkes are Archs.

Frank H. Burke, of Madison & Burke, has had plans prepared by G. A. Dodge and Glenn Allen, Archs., for a 6-story structure to be erected at Bush St. and Clara Lane. The building is to be 50 × 137 ft. Estimated cost, $170,000.

Morton L. Cook will erect a 4-story and basement store on corner of Second and Minna Sts. Will be of reinforced concrete and cost $50,000. Ralph W. Hart is Arch.

A. Schilling will erect a $250,000 class A building at corner of Second and Folsom Sts.

Rolkin & Sharp will erect a $90,000 class A building on corner of Third and Tohama Sts.

ST. MARY'S ONT.—Bids are asked until June 22, by the Department of Public Works, for the erection of a Post Office. Fred Gelinas is Secy.

VANCOUVER, B. C.—It is reported that the Gillies Hotel Syndicate, of Seattle, Wash., will build a 12-story hotel at Vancouver, to cost $750,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CHARLESTOWN, N. H.—We are officially advised that the contract for excavating two small reservoirs and for constructing two rubble masonry dams, with a gate house, has been let by the Water Board to ABLETT & BOWES, of Cohoes, N. Y., at $4,325. A. W. Dudley is Engr., Manchester.

BRATTLEBORO, VT.—The contract for a new water system for this town has been awarded to the LOREN N. FARNUM CO., for $157,000.

WINTHROP, MASS.—We are officially advised that Capt. George L. Goodale has awarded contract for laying mains and remodelling water system at Fort Banks to JOHN E. PALMER, of Boston.

BUFFALO, N. Y.—We are officially informed that plans are being prepared by Henry L. Lyon, Deputy Water Comr., for valve system, noted in issue of May 31.

BUFFALO, N. Y.—Bids are asked until 11 a. m., June 19, by the Department of Public Works, F. G. Ward, Secy., for c.-i. pipe hydrants, valves, etc.

SOUTH KORTRIGHT, N. Y.—The West Branch Light & Power Co. has awarded the contract for the construction of the concrete reservoir at South Kortright Mills and for the construction and equipment of line through the villages of South Kortright and Hobart to Stamford to JOHN H. SHARPE, of Barnardville, N. J.

HADDON HEIGHTS, N. J.—We are officially informed that plans for water supply by artesian wells, at Haddon Heights, have been approved and accepted by the borough authorities. The GAS ENGINEERING CO., Commonwealth Bldg., Philadelphia, Pa., will install pipe system of 8, 6 and 4-in. mains with fire-plugs and house service. V. W. Duke, 1201 Chestnut St., Philadelphia, is Engr-in-Charge.

BROWNSVILLE, PA.—Bids are asked until June 27, by the American Pipe Mfg. Co., 112 North Broad St., Philadelphia, Pa., for laying 1,400 ft. of 12-in. pipe across the Monongahela River, near Brownsville, using Ward joint or one equally as good. (Advertised Engineering News.)

HOMESTEAD, PA.—We are officially advised that contract for battery of boilers for the pumping station here, has been awarded to the ERIE CITY IRON WORKS, of Erie, Pa.

MONTGOMERY, ALA.—COOK & LAURIA have been awarded the contract to install the new system of water-works for the fair grounds at Montgomery, at a cost of $20,000.

BATON ROUGE, LA.—In the issue of Engineering News of May 31, it was stated that Griffin O'Neil, of Dallas, Tex., had made plans for a system of water-works at New Orleans. These plans were made for a water system at Baton Rogue.

CARENCRO, LA.—Bids are asked until July 12, by the Mayor and Board of Aldermen, for construction of a water-works system at Carencro. G. J. Milchior is Mayor.

WYANDOTTE, MICH.—We are officially advised that the T. C. Brooks & Sons, of Jackson, Mich., have contract for waterworks extension here, at $19,976. James G. Pinson is City Clk.

CHICAGO, ILL.—Bids are asked until 2 p. m., July 6, at the office of U. S. Reclamation Service, for construction of deep and shallow wells, suction pipes, pumping stations, siphons, concrete lined conduits and fencing. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

NORTH CHICAGO, ILL. — Bids were opened June 7 at the Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of water supply mains at the Naval Training Station, Great Lakes, North Chicago, Ill. Bids were as follows: Edward M. Laing, Highland Park, Ill., $24,872; H. E. Overstreet, Chicago, $23,548; A. M. Osborn, 77 Jackson St., Chicago, $20,516; Dwyer Plumbing and Heating Co., St. Paul, Minn., $22,435; T. H. Inglehard, Morgan Park, Ill., $18,674; G. A. Kees Domestic Engineering Co., St. Paul, Minn., $24,600; Patterson & Crammond, Waukegan, Ill., $22,850; James J. Lynch, Chicago, Ill. $20,789; Garden City Paving & Post Co., Chicago, $19,490.

ST. CROIX FALLS, WIS. — The contract for laying mains for the new water system of this town has been awarded to SYKES & CO., Minneapolis. A reservoir, to hold 165,000 gallons, is to be built.

MARSHALLTOWN, IOWA.—The A. E. SHORTHILL CO. has been awarded the contract for the material to be used for the extension of water mains at [illegible].

MINNEAPOLIS, KANS.—We are officially advised that this city is agitating the question of a municipal water-works plant. Burns & McDonnell, Engrs., Kansas City, Mo., have been employed to [illegible] plans and estimates.

WILLISTON, N. DAK.—See under Miscellaneous.

SARANAC LAKE, N. Y.—See under Sewers.

FORT PIERRE, S. DAK.—The contract for reservoir work at Fort Pierre has been let to HESS & RAN, of Watertown, S. Dak.

COLEMAN, TEX.—Bids are asked until June 20 by J. A. Miller, Pres. Coleman Water Supply Co., for construction of an earthen dam to contain about 58,000 cu. yds. earth.

WHITESBORO, TEX.—Bids are asked until June 21, by the city, for constructing a system of water-works at Whitesboro. John Marshall is Mayor.

MEEKER, COLO.—A new wooden pipe water system is soon to be installed at Meeker, and the WASHINGTON PIPE & FOUNDRY CO., of Tacoma, Wash., has been awarded the contract for the work.

SEATTLE, WASH.—We are officially advised that H. W. Scott, Principal Asst. City Engr., has made an estimate of the cost for additions to the present gravity supply system of Seattle, which amounts to about $2,250,000. This will consist of about 28 miles of 54-in. pipe, 26½ miles wood stave pipe, and the balance will be riveted steel. There will be three reservoirs, one to contain 100,000,000 gallons, and the other two 50,000,000 gallons each. It is contemplated to let contracts for the work during August or September of this year.

T. RYAN has secured the contract for laying water mains in 4th Ave. North, and Prospect St. at about $10,384.

A resolution has been passed by City Council to lay water mains in Railroad Ave., and other streets, at a cost of $63,500. The mains will be laid with 12 and 16-in. pipe. R. H. Thomson is City Engr.

ROSALIA, WASH.—JAMES C. BROAD, of Spokane, has secured the contract to install the Rosalia water system at $17,277.

MOUNTAIN HOME, IDAHO.—Bids are asked until June 20, by the Great Western Beet Sugar Co., for construction of a water flume near Dixie, Idaho, to require about 300,000 ft. of lumber. Carl Maughmer is Ch. Engr.

FORT FRANCIS, ONT.—See under Light and Power.

VANCOUVER, B. C.—Bids are asked until July 8 by the Water-Works Committee, for supply of c.-i. and steel pipe for proposed extensions. Estimated cost, $50,000. The Committee has decided to erect a stand-pipe at the reservoir, and to lay about 5,000 wood pipe on Ninth Ave., West.

DAWSON CITY, YUKON.—The Klondike Water Supply Co. is reported incorporated with a capital of $6,000,000, to establish a system whereby water from Klondike River may be brought to Bonanza, Hunker, Eldorado, Gold Run, Sulphur and other creeks for hydraulic mining purposes. Incorporators: Alex. McDonald, Dr. William Barrett and A. B. Palmer, of Dawson City; Robt. Kelly, of Vancouver, B. C., and Alfred Hitchcock, of London, England.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

DEXTER, ME.—The FLANDERS & PIERCE CO., of 47 Park St., Bangor, has been awarded the contract for building sewer on Spring St.

WATERBURY, CONN.—Bids are asked until July 3, by the Board of Public Works, for excavating soil and building embankments upon site of proposed sewage purification plant, and paving a portion of the right bank of Naugatuck River. Robert A. Cairns is City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., June 18, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewers and appurtenances in Grand and 174th Sts. and Lexington Ave.

Bids are asked until 3 p. m., June 20, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewer in 100th St., between Harlem River and First Ave.

BUFFALO, N. Y.—The Commissioner of Public Works has let contract for installing 15 and 18-inch tile sewer in Ellicott St., to GEORGE W. MOORE, at $4,900.

SCHENECTADY, N. Y.—We are officially advised that the following are the bids received June 7 for sewers in Sections Nos. 1, 2 and 3: John Allen, Schenectady, (1) $24,030, (2) $28,295, (3) $52,405; Joseph H. Clements & Sons, Schenectady, (1) $34,602, (2) $35,048; Kellam & Shaffer, Schenectady, (1) $26,619, (2) $32,591, (3) $39,473; Schenectady Contracting Co., Schenectady, (1) $35,126, (2) $35,455, (3) $39,283; Golden & Lansing, Troy, N. Y., (1) $24,242; De Nallo & Klimburg, Kingston, N. Y., (1) $28,292, (3) $40,012; Beckwith Bros., Schenectady, (1) $30,864, (2) $39,637, (3) $38,326; C. M. Gridley, Schenectady, (2) $29,670. Lewis B. Sebring, Parker Bldg., is City Engr.

GREEN ISLAND (Troy Post Office), N. Y.—We are officially advised that the Public Improvement Commission has awarded to LANSING & GOLDEN contract for constructing a sewer at Green Island. William H. Jarvis is Secy.

ALBANY, N. Y.—See under Miscellaneous.

ALEXANDRIA BAY, N. Y.—See under Streets and Roads.

SENECA FALLS, N. Y.—Bids are asked until 2 p. m., June 28, by the Municipal Board, for about 12 miles of 6 to 24-in. pipe sewers and appurtenances. E. L. Guion is Village Clk.; Morrison & Farrington, Inc., of Syracuse, are Engrs.

SARANAC LAKE, N. Y.—Bids are asked until 8 p. m., July 2, by the Sewer and Water Board, for laying 13,000 ft. of from 6 to 12-in. sewer and about 10,000 ft. of 4 to 14-in. water pipes. S. A. Miller is Clk.; John L. Collins, 444 Broadway, Albany, is Engr. (Advertised Engineering News.)

BORDENTOWN, N. J.—Bids are asked until June 20, by H. W. Kunzi, City Clk., for constructing, approximately, 1,725 ft. 24-in. sewer in Bonaparte Park. Waring, Chapman & Farquhar are Engrs., 874 Broadway, New York, N. Y.

BORDENTOWN, N. J.—Bids are asked until 8 p. m., June 20, by H. W. Zungi, City Clk., for construction of about 1,725 ft. 24-in. sewer in Bonaparte Park, Bordentown. (Advertised Engineering News.)

JERSEY CITY, N. J.—The Street and Water Board has awarded to BERNARD GANNON the contract for the sewer on Warner Ave. Charles Van Keuren is Ch. Engr. St. and Water Bd.

WASHINGTON, D. C.—Bids were opened June 11, at the office of the Commissioners of the District of Columbia, for the construction of a sewer, James Creek Canal, between H and N Sts., Washington. Bidders were (a) Jas. C. Coyle, Washington, and (b) E. G. Gunnel, Washington. Ordinary excavation, (a) $1 per cu. yd., (b) $1.50; red brick masonry, (a) $8 per cu. yd., (b) $15; concrete culvert, (a) $8.30, (b) $7; 24-in. pipe, (a) 25 cts. per lin. ft., (b) 58 cts.; 21-in. pipe, (b) 48 cts. per lin. ft.

WASHINGTON, D. C.—Bids are asked until noon, June 25, by the Commissioners, for sluice gates. Henry B. F. Macfarland is Comr. (Advertised Engineering News.)

RICHMOND, VA.—THOMAS A. BARRY & CO. have been awarded contract for constructing branch sewer in Bacon's Quarter.

BELINGTON, W. VA.—See under Streets and Roads.

PENSACOLA, FLA.—Wicke & Co., Pensacola, Fla., were lowest bidders, at $3,205, on furnishing the plumbing and sewerage at the Santa Rosa Quarantine Station, Pensacola, Fla. Bids were opened June 6, at the office of the Supervising Architect of the Treasury.

STEUBENVILLE, OHIO.—At a recent meeting of the Board of Service, JAMES FERRY & SON, of Crafton, Pa., were awarded the contracts for building the sewers on both North Seventh St. and Alley D, both between Washington and North Sts. The CENTRAL SUPPLY CO. was awarded the contract for the pipe.

TOLEDO, OHIO.—The Board of Public Service has awarded to JOHN McMAHON the contract for construction of Sewer No. 958, the approximate cost of which will be between $4,000 and $5,000. A contract was also awarded to PATRICK TANZEY, for building the Oakdale Ave. sewer, at $14,762. Frank I. Consaul is Ch. Engr. Bd. Pub. Service.

CINCINNATI, OHIO.—Bids are asked until June 18, by the Board of Public Service, M. J. Keefe, Clk., for improving a portion of Parkson Place, by constructing sewers and drains.

LANCASTER, OHIO.—The contract for the Fifth Ave. sewer has been awarded to C. T. McCRACKEN & CO., of Columbus, at $8,842.

DAYTON, OHIO.—The Board of Public Works has awarded to WILLIAM HILT the contract for constructing storm sewers on Market St.

EVANSVILLE, IND.—Bids are asked until 2 p. m., June 23, by the Board of Public Works, for construction of local sewers in Blocks Nos. 5 and 18. W. F. Wunderlick is City Clk.

RICHMOND, IND.—Bids are asked until June 20, by the Board of Public Works, for construction of a 12-in. pipe sewer, between 15th and 16th Sts., and a 15-in. pipe sewer in South C St. Joseph Zeller is Chn.

HAMMOND, IND.—Bids are asked until 10 a. m., June 18, by the Department of Public Works, for constructing 30, 36 and 42-in. sewer on Hohman St. W. F. Bridge is City Engr.

NOBLESVILLE, IND.—BENNER & MACKEY, of Marion, are reported to have secured the contract for constructing the Monument St. and Ritchie sewers, at $6,710.

WABASH, IND.—Bids are asked until 6 p. m., June 25, by Fremont M'lees, City Clk., for completing the construction of a local sanitary sewer on Canal St.

VALPARAISO, IND.—Bids are asked until 8 p. m., June 22, by the Common Council, for installing sewers in alleys of this city.

BATAVIA, ILL.—The lowest bid received on June 1, for installing sewers here, was that of T. J. Peter & Co., Chicago, at $46,800.

ELWOOD, ILL.—J. F. DUNKEL, of Tuscola, Ill., has been awarded contract for the construction of the County Line sewer in this village.

DIXON, ILL.—Bids are asked until 2 p. m., June 16, by the Board of Local Improvements, for constructing vitrified tile pipe sewers with connections.

MADISON, WIS.—We are officially informed that ROBERT MITCHELL, of Madison, was awarded contract, on June 8, for installing sewer in Winnebago St. District, at $19,775. Other bids were: Nicholas Quinn, Madison, $19,997, and Blake Bros., Madison, $21,900. J. F. Icke is City Engr.

ORMSBY, MINN.—Bids are asked until 8 p. m., June 25, by H. M. Vagstad, Recdr., for constructing 220 rods of 10-in. drain from 2 to 7½ ft. in depth.

MINOT, N. DAK.—We are officially advised that JAMES KENNEDY, of Fargo, has the contract for sewer work here, at about $30,000. G. L. Morrow is Audr.

ST. LOUIS, MO.—The BUEHLER-COONLEY CONSTRUCTION CO. has been awarded the contract for enlarging Rocky Branch sewer from the Mississippi River to Elliott River, at $84,800. The engineer's estimate on the work was $125,000.

The PRENDERGAST CONTRACTING CO. has secured the contract for emergency repair on sewers for one year, at $31,134.

SEATTLE, WASH.—Bids are asked until June 23 by the Board of Public Works, C. B. Bagley, Secy., for sewers for the North Capitol Hill Sewer District. R. H. Thomson is City Engr.

ONTARIO, ORE.—Contract for putting in sewer system for Ontario has been awarded to R. M. BARDSEN, of Butte, Mont.

MEDFORD, ORE.—Bids are asked until noon, June 30, by J. E. Toft, City Recdr., for construction of a sewer in District No. 3.

CORTE MADERA, CAL.—Bids are asked until noon, June 15, by the Sanitary Board of District No. 2, of Marion County, for installing a sewer at Corte Madera. Benjamin Scouler is Secy.; George M. Dodge, San Rafael, is Engr.

FORT WILLIAM, ONT.—We are officially advised that about 8,000 ft. of sewer, comprising 12 to 15-in. pipe sewer and 30 to 52-in. concrete sewer, will be constructed at Fort William, to cost about $80,000. Bids will be asked for, to be opened about July 4. H. S. Hancock, Jr., is City Engr.

FORT FRANCIS, ONT.—See under Light and Power.

MILLBROOK, ONT.—Bids are asked until noon, June 27, by the Township of Cavan, John J. Fair, Millbrook, Clk., for constructing about seven miles of drainage works. John E. Belcher is Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

WASHINGTON, D. C.—We are officially advised that on May 7 bids were opened for cleaning paved streets by machine sweeping, public alleys and unimproved streets by hand. The contracts were awarded as follows: Machine sweeping to J. F. CONRAD, 1423 T St., N. W., for a period of five years from July 1, 1906, at 22¼ cts. per thousand sq. yds.; unpaved street cleaning to J. F. CONRAD, for a period of five years from July 1, 1906, at $73.80 a day for furnishing 34 laborers and eleven carts with all tools necessary to perform the work; alley cleaning, to STUTLER & READY, 400 Fifth St., N. W., for a period of five years from July 1, 1906, at 40 cts. per thousand sq. yds. John T. Twohey is Supt. St. Cleaning Dept.

SPRINGFIELD, OHIO.—A garbage disposal plant to cost $15,000 is proposed for Springfield, the matter to be taken up with City Council by the Board of Public Service.

PARIS, FRANCE.—We are informed by William F. Morse, 18 Broadway, New York, American representative for the refuse destructors of MELDRUM BROS., Manchester, England, that that firm has been awarded contract for furnishing three destructors to the City of Paris, with a capacity 180 tons each per day of 24 hours, to be installed in different stations of the city. Each station will be fitted with three regeneration furnaces, made by the same firm, with boilers of the Babcock and Wilcox style. Meldrum Bros. have also secured an order from the Municipality of Pretoria, South Africa, for a 4-grate destructor, with building, boiler, etc., to have a capacity of 75 tons a day.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NASHAU, N. H.—We are officially advised that about 5,000 sq. yds. of Hassam pavement is considered for Nashua, to cost about $7,000. E. J. Johnson is City Engr.

ALEXANDRIA BAY, N. Y.—Bids are asked until 8 p. m., June 8, by the Village Trustees, for macadamizing, grading, sewering, etc., the streets of Alexandria Bay. Estimated cost, $12,000. J. P. Thomson is Village Clk. (Advertised, Enginering News.)

INDIANA, PA.—Bids are asked until 7.30 p. m., June 29, by the Borough Council for paving certain portions of five streets in this borough. R. M. Mullin is Boro. Engr. (Advertised, Engineering News.)

WILKES-BARRE, PA.—We are officially informed that BOLTON, G. COON has secured contract for paving about 17,000 sq. yds. with Porter block, at $43,468. H. S. Smith is City Engr.; W. J. Williams is City Clk.

ALBANY, N. Y.—We are officially advised that contract for paving, with vitrified brick, about 4,700 sq. yds. of Elk St., Albany, has been let to T. HENRY DUMARY, of Albany. This contract also includes about 2,215 lin. ft. of curbing, 6,706 sq. ft. flag sidewalk, 1,940 sq. ft. vitrified brick sidewalk, 3,160 sq. ft. relaid sidewalk, water services and catch basins. The contract price is $16,122. Walker Melius is City Engr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 27, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, paving with asphalt, curbing and laying sidewalks on various streets in Brooklyn.

DUNKIRK, N. Y.—Bids are asked until 7.30, June 28, by the Common Council, for improving Fifth and Wright Sts., and Railroad Ave., Dunkirk. J. P. Morrissey is City Engr.; L. N. Murray is City Clk. (Advertised, Enginering News.)

COHOES, N. Y.—Bids are asked until June 19, by the Common Council, for paving a portion of Ontario St., amounting to about 10,789 sq. yds. William J. Elliot is City Clk.; Charles H. Van Auken is City Engr. (Advertised, Enginering News.)

AMSTERDAM, N. Y.—We are officially advised that MARTIN MURRAY of Troy, has secured the contract for grading ten streets at Amsterdam at $7,859. F. E. Crane is City Engr.

JOHNSTOWN, N. Y.—Bids are asked until 7.30, June 18, by the Common Council, for macadamizing and curbing parts of North Market and Mason Sts.

TROY, N. Y.—Bids are asked until June 15, by the Board of Contract and Supply, James M. Riley, Clk., for grading, curbing and paving with vitrified brick, portions of Hawthorne Ave., Monroe and Jackson Sts.

BUFFALO, N. Y.—Bids are asked until 11.30 a. m., June 20, by the Park Commissioners for paving a portion of Niagara Sq., with asphalt pavement, and for constructing a roadway on the eastern side of Lincoln Parkway. George H. Selkirk is Secy.

PAULSBORO, N. J.—Bids are asked until July 3, by the Committee of Streets and Highways, for stone road. The Mayor will consider bids for a bitulithic street from any responsible bidder. William C. Carter, Woodbury, N. J., is Boro. Engr.; Charles M. Gwilliam is Boro. Clk. (Advertised, Engineering News.)

SOMERVILLE, N. J.—Plans, specifications and bidding sheet for macadamizing about 3 1-10 miles of road in Somerset County, known as the Bridgewater section, as advertised, are on file at the office of Engineering News, New York. Bids are asked until June 22.

AVALON, N. J.—Bids are asked until 8.30 p. m., June 15, by the Borough Council, for 50,000 sq. ft. of cement sidewalk. Gilbert S. Smith is Mayor. (Advertised, Engineering News.)

WARREN, PA.—Bids are asked until June 29 by the State Highway Department, Joseph N. Hunter, Comr., at Harrisburg, for constructing 3,938 ft. road in Glade Township, Warren Co.

WASHINGTON, D. C.—Bids, until June 18, at the office of the Commissioners, for furnishing granite curbing during the fiscal year ending June 30, 1907.

SUFFOLK, VA.—The SOUTHERN CONTRACTING CO., of Norfolk, has secured contract for paving with vitrified brick, Washington, Main, Pinner and Saratoga Sts.; and the WARREN BROS. CO., 93 Federal St., Boston, has the contract to put bitulithic pavement on Washington and Market Sts.

BELINGTON, W. VA.—F. E. DEAN has been awarded the contract for paving and sewering at Belington, W. Va., amounting to $40,000.

WHEELING, W. VA.—Bids are asked until 2 p. m., June 15, by the Board of Commissioners of Ohio County, James H. Beans, Pres., for 3½ miles of brick paving 18 ft. wide.

RANDLEMAN, N. C.—Bids are asked until June 23, at the office of the Mayor for grading, curbing and macadamizing the Main St. of Randleman.

DANDRIDGE, TENN. — OAK GROVE CONSTRUCTION CO., Dandridge, has secured the contract for constructing a new road to cost $200,000.

CLINTON, TENN.—Bids are asked until 1 p. m., July 2, by the Anderson County Pike Commissioners, W. L. Owen, Secy., for macadamizing pike road from Clinton to Coal Creek, and from Briceville to Cold Creek.

YOUNGSTOWN, OHIO.—We are officially advised that W. W. KELLEY of McKeesport, Pa., has been awarded contract for furnishing material for macadamizing the Youngstown and Boardman Road, at $34,490. Other bids were: G. A. Gialdini & Co., Girard, Ohio, $35,241; L. H. Young, Mineral Ridge, Ohio, $39,003; Howley Construction Co., Pittsburg, Pa., $32,833; W. E. Sprague, Youngstown, $36,315; P. Joyce, Youngstown, $35,310; G. T. Prosser is City Clk.

DELAWARE, OHIO.—The NEW CASTLE BLOCK ASPHALT CO., of Youngstown, has secured contract for street paving in this town, at $1.98 a sq. yd. Over 11,500 sq. yds. are to be paved, and work will begin at once.

CLEVELAND, OHIO.—The contract for construction of the Clark Ave. grade crossing has been awarded to C. H. FATH & SON CONSTRUCTION CO., the amount of the contract being in the neighborhood of $70,000.

TERRACE PARK, OHIO.—Bids are asked until June 30, by W. E. Williamson, Village Clk., for furnishing material and constructing cement or artificial stone sidewalks on Lexington and Floral Aves.

CINCINNATI, OHIO.—Bids are asked until noon, July 2, by the Board of Public Service, for improving Winfield Ave., from Glenway Ave. to its southern terminus. M. J. Keefe is Clk: Charles N. Danenhower is Ch. Engr. Bd. Pub. Service.

CROWNPOINT, IND.—Bids are asked until noon, July 2, by the Commissioners of Lake County for constructing three miles of gravel road in three townships. C. A. Johnson is County Audr.

GREEN CASTLE, IND.—Bids are asked until July 2, by the Commissioners of Putnam County, for improving about 12,000 ft. gravel road. C. C. Hurst is County Audr.

RENNSELAER, IND.—The Commissioners of Jasper Co., have awarded to W. F. SMITH, of Rennselaer, contract for constructing stone streets here at $79,655. In all there will be about 34 miles.

CRAWFORDSVILLE, IND.—A contract for construction of the Wabash Ave. pavement in Crawfordsville has been awarded to WAUGH & BUCHANNAN, at $21,949.

COLUMBUS, IND.—Contract for the Morris-Newsom Road in Sandcreek Township has been awarded to DAVIS & GODFREY, at $9,310, and O. M. Morris was appointed Supt. of Construction.

SPENCER, IND.—Bids are asked until July 3, by the Commissioners of Owen County, for macadamizing and improving about three miles of road in Franklin Township.

CONVERSE, IND.—L. C. LILLARD, of Marion, Ind., has the contract for paving street with brick in Converse.

DETROIT, MICH.—The BARBER ASPHALT PAVING CO. has secured the contract for paving several streets, at $15,551.

CHEBOYGAN, MICH.—We are officially informed that on June 6, the contract for street paving here was awarded to MEAGHER BROS., of Bay City, Mich., logan block to be used. Other bidders for the work with the same material were: John C. Davies, Saginaw, $53,386; John Scanlon, Saginaw, $54,442; George H. Kneal, Lansing, $54,714; John Clancy, Ann Arbor, $56,439; Crowley Bros., Saginaw, $60,278.

DANVILLE, ILL.—Bids are asked until June 23 at the office of E. N. Briley, City Clk, for construction of a brick paved road known as Batestown Road. E. L. Bourinot is Engr.

URBANA, ILL.—The contract for the Oregon St. pavement has been let to J. W. STIPES at $38,500. The pavement extends from Lynn St. to Lincoln Ave., on Oregon St., and thence to the University ground on Nevada St.

CHICAGO, ILL.—The West Park Board has let contracts as follows: B. F. CONWAY CO., $10,659, for repairing Washington Boulevard, from Halsted St. to Western Ave.; B. F. CONWAY CO., $6,353, for repairing Ashland Boulevard; BARBER ASPHALT CO., $22,727, for repairing Ogden Boulevard.

MADISON, WIS.—WOOLEY & HANSON, of La Crosse, have secured contract for paving streets in Madison at $20,000.

BARABOO, WIS.—We are officially informed that the city intends to construct about two miles of macadam streets, with brick block gutters in connection. H. E. French is City Engr.

SIOUX CITY, IOWA.—Bids are asked until June 19 for furnishing and laying 18,000 sq. yds. creosote blocks on old foundation.

We are officially advised that the LYTLE CONSTRUCTION CO., Lytle Block, Sioux City, has contract for paving 4,500 sq. yds., on Water St., with brick at $10,260; and M. L. FLYNN, Iowa Bldg., Sioux City, has contract to pave 5,500 sq. yds. of alleys with brick at $12,540. J. M. Lewis is City Engr.

OTTAWA, KANS.—The contract for 16,000 sq. yds. of vitrified brick paving and 9,600 lin. ft. of concrete curbing has been awarded to N. E. STUCKER. J. H. Bell, City Clk.

ST. LOUIS, MO.—The GRANITE BITUMINOUS PAVING CO. has been awarded the contract for paving Belt Ave., between Page Boulevard and Bartmer Ave., with bituminous macadam, at $13,648.

ST. JOSEPH, MO.—The paving contract for paving Mulberry St. has been awarded to ROCKLIFFE & GIBSON, at $12,600.

HOT SPRINGS, ARK.—The BARBER ASPHALT PAVING CO. has been awarded the contract for the paving of Central Ave., Hot Springs.

FORT SMITH, ARK.—See under Sewers.

GUTHRIE, OKLA.—Bids are asked until noon, June 21, by the City of Guthrie, for paving East Warren Ave. with asphalt or brick paving, about 11,000 sq. yds., curbing about 4,500 lin. ft. W. W. Miller is Engr.

BOISE, IDAHO.—Bids are asked until June 21, by Emily L. Savidge, City Clk., for laying a bitulithic pavement on streets in District 7, about 21 blocks in all. Paving to be 40 ft. wide, and all car tracks to be paved with vitrified brick for a width of about 9 ft.

GODERICH, ONT.—The Town Council has decided to construct cement sidewalks to cost about $7,000.

MILVERTON, ONT.—Bids are asked until June 15, by W. L. Weir, for constructing cement sidewalks in this village.

BEAMSVILLE, ONT.—The contract for construction of Silex walks in this town has been let to the PETTYPIECE SILEX STONE CO., Amherstburg, at $13,000.

LONDON, ONT.—Bids are asked until 5 p. m., June 21, by A. O. Graydon, City Engr., for paving Talbot and York Sts. and Market Lane with vitrified brick, and King St. with Kentucky rock asphalt.

FORT WILLIAM, ONT.—We are officially advised that this town will pave about 4,000 sq. yds. with asphalt block, on concrete foundation. Estimated cost, $12,000. The date of opening bids for the above work is as yet uncertain. H. S. Hancock, Jr., is Town Engr.

ST. BONIFACE, MAN.—The Council intends laying creosoted block pavement, for which tenders will be invited shortly.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The American Pulp, Paper & Lumber Co. and the International Lumber Co. have acquired water power on the Kennebec River at North Anson, Me., and will erect a large pulp and paper plant. F. N. Davenport, of Marlboro, Mass., is Pres. and B. M. Lovell, Boston, Mass., is Treas.

MANCHESTER, N. H.—The J. H. MENDELL CO., of Manchester, has been awarded the contract to build the Berryfield shoe factory here, four stories, 306 × 42 ft., at about $67,000.

DANVERS, CONN.—About $2,000,000 will be expended by the A. C. Lawrence Leather Co. in building its new Waters River plant, in Danvers. The new plant will be the largest in the North Shore district, and will break all previous records for investment of money in factory property.

BUFFALO, N. Y.—Allert Kahn, Arch., 1117 Union Trust Bldg., Detroit, Mich., is preparing plans and will take figures early in July for a 3-story addition, 60 × 260 ft., to the automobile manufacturing plant of E. R. Thomas, at Buffalo. Mill construction, built of reinforced concrete, composition roof, steam heating, electric lighting, open plumbing, etc.

NEW YORK, N. Y.—R. Hoe & Co., Archs. and owners, 504 Grand St., have awarded the contract for building a 1 and 2-story brick and steel machine shop, 148 × 200 ft., on East St., near Broome, to LIST & ROSE, 1947 Broadway, at about $100,000.

PHILADELPHIA, PA.—J. W. EMERY, 1524 Sansome St., has been awarded the contract to build a 4-story addition to the factory of Joseph Lomax, at Orleans and Jasper Sts.

Contract for the construction of a factory at 12th and Brown Sts., for H. H. Roelofs & Co., has been awarded to D. O. BOORSE, 1625 Thompson St., at about $20,000.

SCRANTON, PA.—SPRUKS BROS. have been awarded the contract for erecting a $100,000 rolling mill, 120 × 265 ft., for the Kemmerer Iron & Steel Co.

BRADDOCK, PA.—The United States Steel Corporation will build 40 open-hearth furnaces at the Edgar Thompson plant. This, with other contemplated improvements, will cost $5,000,000.

PITTSBURG, PA.—Chas. F. Walthers & Co., Archs., 715 Wabash Bldg., are preparing plans for a 14-story warehouse, 60 × 160 ft., which will be built of reinforced concrete for the Hostetter Estate, at a cost of $200,000.

The Rust Boiler Co., H. B. Rust, Pres., 605 German National Bank Bldg., will build new plant here.

The Nicola Building Co., 1405 Farmers' Bank Bldg., is having revised drawings made, and bids will be taken in about three weeks, for an 8-story mercantile building, 60 × 70 ft., to be built at 420-424 First Ave. W. G. Wilkins & Co., 909 Westinghouse Bldg., are Archs. and Engrs. Building will be of brick, steel, stone and concrete, and cost $200,000.

BALTIMORE, MD.—A 5-story brick, stone and steel addition, 150 × 150 ft., will be erected to the foundry plant of Bartlett, Hayward & Co., at Scott and Pratt Sts. Cost, $150,000.

NEWBERRY, S. C.—It is reported that the Mollohon Cotton Mills will increase the equipment of the present plant and build a new mill.

NEWNAN, GA.—It is said that W. C. McBride will erect a $75,000 cotton mill here.

The Newnan cotton mills have issued a stock dividend of 40% and begun the erection of a new mill to cost about $50,000. The contract for the mill building was awarded to T. C. THOMPSON BROS., of Birmingham, Ala.

CHATTANOOGA, TENN.—A. W. Poe and others have organized the St. Elmo Tile & Brick Co. and a $30,000 factory building, 60 × 150 ft., will be erected at St. Elmo, a suburb of Chattanooga.

KNOXVILLE, TENN.—We are officially informed that contract for the construction of a 3-story pants factory, 50 × 110 ft., for J. E. Dooley, has been awarded by the Architect, L. E. Waters, to BRIMER & ENGLAND.

CINCINNATI, O.—The R. A. Becker Co., varnish makers, will erect four buildings, storage, cooking, tank and mining. All to be of concrete and brick, mill construction, with composition roof. Improvements are also to be made on several of the other buildings. Cost, $20,000. E. H. Dornette, 56 Pickering Bldg., is Arch.

CLEVELAND, OHIO.—The ATLAS CONSTRUCTION CO., 376 Fairfield St., has been awarded the general contract for erecting the 4-story brick and stone factory building, 50 × 100 ft., for the Champion Bed Spring Co., at Seneca and Jefferson Sts. Paul Wilkes, 703 St. Clair St., is Arch.

TOLEDO, OHIO.—The Lake Shore & Michigan Southern Ry. Co. will build the largest freight engine roundhouse in the world at the Air Line Junction yard here, to hold forty engines and cost about $500,000. New car shops and coaling docks will also be built and the capacity of the yards will be doubled.

WILLIAM P. CARMICHAEL CO., Fullerton Bldg., St. Louis, has been awarded the contract to build a reinforced concrete roundhouse for the Detroit & South Shore line. Riggs & Sherman, Engrs., 613 The Nasby, Toledo, prepared plans.

MARION, IND.—Contract for the construction of the Hoosier Range Works has been awarded to the INDIANA BRIDGE CO., at about $30,000.

ATTICA, IND.—The National Car Coupler Co., 525 Monadnock Block, Chicago, let the general contract to the ATTICA BRIDGE WORKS for a manufacturing plant to be built at Attica, for the manufacture of steel trusses, car wheels and other products of their manufacture. It will be one story, 150 × 300 ft., of steel, and cost $50,000.

EDINBURG, IND.—The Union Starch Works plant at this place will be remodeled and an addition erected. J. I. Irwin, of Columbus, Ind., is Pres.

SAGINAW, MICH.—We are advised that G. H. Everson, Arch., 545 Liberty Ave., Pittsburg, Pa., is preparing plans and contract will be let about July 15 for the erection of a 2-story foundry and tube mill, 75 × 250 ft., for the Acme Wheel & Tube Co., of Pittsburg.

CHICAGO, ILL.—The Rice Malt & Grain Co., Room 206, 255 La Salle St., contemplate building a malt house, elevator and power-house at 45th and North Aves. The malt house will be four stories, 170 × 170 ft., of brick on concrete foundation. The power-house will be one story, 40 × 60 ft., of brick. The elevator will be of reinforced concrete, on concrete foundation, with concrete roof. The three structures will cost $200,000.

WINONA, MINN.— A. J. Van Duesen, Arch., is preparing plans for rebuilding the plant of the Union Fiber Co., recently destroyed by fire. The loss, including building and machinery, is $144,000. Two new factory buildings and several warehouses will be erected. A. G. Brown is Secy.

SEATTLE, WASH.—GEORGE DRIVER, of this city, has been awarded contract for construction of the warehouse, office and machinery hall for the Broderick & Bascom Wire Rope Co.'s new factory at Argo, and has commenced work. Cost of building as already contemplated is placed at $100,000.

SANDWICH, ONT.—Representatives of the United States Steel Corporation have purchased two farms here and it is reported that the Steel Corporation has decided to build its $1,000,000 Canadian plant at Sandwich. Men who represented the corporation in the sale said that building operations on the 2,444 acres controlled and owned will begin in a short time.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

BATTLESHIPS.—Washington, D. C.—Bids for the construction of battleships 26 and 27, South Carolina and Michigan, will be opened June 23.

DREDGING.—Detroit, Mich.—Bids are asked until 2 p. m., July 24, by Col. Chas. E. L. B. Davis, U. S. Engr., for widening St. Mary's Falls Canal.

CANAL.—Wenatchee, Wash.—It is reported that the Wenatchee Canal Co. will build extensions of its irrigation system during the summer, at a cost of $200,000.

DREDGING.—Jacksonville, Fla.—Bids are asked until noon, June 22, by Maj. F. R. Shunk, U. S. Engr., for dredging Trout Creek Shoal, St. John's River.

DREDGING.—New York, N. Y.—Bids are asked until noon, June 20, by J. A. Bensel, Comr. of Docks, for dredging 100,000 cu. yds. on North, East and Harlem Rivers.

DITCH.—Grandin, N. Dak.—Contract for the construction of the Grandin Drainage Ditch, seven miles long, has been awarded to TREADWELL TWICHELL, at $13,200.

STONE CRUSHER, ETC.—Portland, Me.—Bids are asked until 3 p. m., June 19, by the Committee of Public Works, for a stone-crushing plant. Specifications are on file at office of Engineering News, New York. W. E. Cullinan is Secy.

DITCH.—Crookston, M —Bids are asked until 2 p. m., June 2 N. A. Hoffard, County Audr., for con ting a drainage ditch, involving 23,600 yds. of excavation.

DREDGING.—Ottawa, —Bids are asked until June 15, by F Gellenas, Secy., Dept. Pub. Wks., for ging at Doucet's Landing, L'Assomption er and Berthier Channel.

(Continued on 226.)

CONTRACT RICES.

[Where (*) precedes it under Contract Prices the work wa vertised in Engineering News.]

WATER PIPE.—New eans, La.—The following bids were recei y F. S. Shields, Secy. Sewerage and Wa d., on May 15, for 100 miles of cast-i water pipe; on contracts 6, 7 and 8-W t idders were (a) American Cast-Iron Pip , Birmingham, Ala.; (b) U. S. Cast-Ir pe & Foundry Co., Chattanooga, Tenn. l (c) the Dimmick Pipe Co., Birming Ala. On contracts 9, 10 and 11-W th ders were: (A) M. F. Sullivan & Co., M , Ala.; (B) M. O'Herron & Co., Pittsbu Pa.; (C) Irwin Bros., New Orleans, La.; E. J. O'Beirne Atlanta, Ga.; (E) R. C St e, New Orleans, La.; (F) A. L. Patterson, lacon, Ga.; (G) Talbott Uhl Construction o., Logansport, Ind.; (H) Cary Bros., New rleans, La.; (I) Southern Contracting Co., w Orleans, La.; (J) Black & Laird, New O ans, La.:

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "6-W."

Items.	Quantity.	(a)	(b)
12-in. straight pipe, Class "B," per ton of 2,000 lbs....	220 tons....	$27.25	$26.75
10-in. straight pipe, Class "B," per ton of 2,000 lbs....	440 tons....	27.25	27.75
6-in. straight pipe, Class "B," per ton of 2,000 lbs....	1,250 tons....	27.25	27.75
4-in. straight pipe, Class "B," per ton of 2,000 lbs....	540 tons....	27.25	28.75
Special castings, per ton of 2,000 lbs..............	50 tons....	55.00	58.00
Total		$69,512.50	$71,207.50

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "7-W."

Items.	Quantity.	(a)	(b)
18-in. straight pipe, Class "B," per ton of 2,000 lbs....	10 tons....	$27.50	$26.75
12-in. straight pipe, Class "B," per ton of 2,000 lbs....	440 tons....	27.50	26.75
10-in. straight pipe, Class "B," per ton of 2,000 lbs....	110 tons....	27.50	27.75
8-in. straight pipe, Class "B," per ton of 2,000 lbs....	220 tons....	27.50	27.75
6-in. straight pipe, Class "B," per ton of 2,000 lbs....	1,760 tons....	27.50	27.75
4-in. straight pipe, Class "B," per ton of 2,000 lbs....	830 tons....	27.50	28.75
Special castings, per ton of 2,000 lbs..............	70 tons....	55.00	58.00
Total		$96,525.00	$97,957.50

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "8-W."

Items.	Quantity.	(c)	(b)
24-in. straight pipe, Class "B," per ton of 2,000 lbs....	770 tons....	$26.75	$26.75
24-in. straight pipe, Class "B," per ton of 2,000 lbs....	20 tons....	26.75	26.75
12-in. straight pipe, Class "B," per ton of 2,000 lbs....	830 tons....	26.75	26.75
10-in. straight pipe, Class "B," per ton of 2,000 lbs....	30 tons....	27.50	27.75
8-in. straight pipe, Class "B," per ton of 2,000 lbs....	120 tons....	27.50	27.75
6-in. straight pipe, Class "B," per ton of 2,000 lbs....	1,250 tons....	27.50	27.75
4-in. straight pipe, Class "B," per ton of 2,000 lbs....	910 tons....	28.50	28.75
Special castings, per ton of 2,000 lbs..............	80 tons....	60.00	58.00
Total		$112,570.00	$112,987.50

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "9-W."

Items.	Quantity.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
Unloading pipes and specials from cars to wagon and unloading at point of delivery, per ton of 2,000 lbs.....	2,500 tons	$0.15	$0.25	$0.40	$0.40	$0.40	$0.30	$0.35	$0.40	$0.50	$0.50
Unloading pipes and specials from cars in yard and properly piling same, per ton of 2,000 lbs..............	250 tons	.20	.25	.50	.25	.40	.30	.20	.25	.50	.75
Unloading from yard and unloading at point of delivery, per ton of 2,000 lbs..........................	250 tons	.20	.25	.40	.40	.40	.50	.45	.40	.50	.50
Each 100 ft. of haul from point of loading, to point of unloading, per ton of 2,000 lbs.....................	150,000 tons 100 ft...	.01¼	.01	.01	.00¾	.01	.01½	.01	.01½	.02	.02
Laying 24-in. water pipe, per lin. ft..................	500 lin. ft.	.40	1.10	1.00	1.15	1.00	1.25	1.25	1.30	1.25	1.15
Laying 20-in. water pipe, per lin. ft..................	500 lin. ft.	.40	.90	.90	.85	.80	1.00	1.00	1.00	1.10	1.05
Laying 18-in. water pipe, per lin. ft..................	500 lin. ft.	.40	.80	.75	.75	.75	.90	1.00	.85	1.00	.90
Laying 16-in. water pipe, per lin. ft..................	500 lin. ft.	.40	.78	.70	.65	.70	.75	.70	.75	.90	.80
Laying 14-in. water pipe, per lin. ft..................	500 lin. ft.	.38	.50	.55	.55	.60	.60	.65	.65	.80	.75
Laying 12-in. water pipe, per lin. ft..................	5,000 lin. ft.	.38	.40	.51	.45	.50	.55	.60	.60	.70	.65
Laying 10-in. water pipe, per lin. ft..................	14,000 lin. ft.	.31	.33	.35	.37	.40	.45	.50	.55	.50	.55
Laying 8-in. water pipe, per lin. ft..................	1,000 lin. ft.	.25	.28	.30	.31	.35	.35	.40	.50	.45	.50
Laying 6-in. water pipe, per lin. ft..................	70,000 lin. ft.	.19½	.22	.24	.26	.24	.33	.35	.35	.35	.35
Laying 4-in. water pipe, per lin. ft..................	45,000 lin. ft.	.15½	.20	.21	.21	.19	.28	.30	.30	.30	.30
Furnishing on the ditch each 24-in. valve.............	1	170.00	187.00	210.00	200.00	175.00	195.00	210.00	204.00	240.00	245.00
Furnishing on the ditch each 20-in. valve.............	1	105.00	115.00	131.00	120.00	120.00	116.00	130.00	126.00	120.00	170.00
Furnishing on the ditch each 18-in. valve.............	1	84.00	92.00	105.00	100.00	100.00	94.00	100.00	117.00	80.00	127.00
Furnishing on the ditch each 16-in. valve.............	1	64.00	70.00	75.00	75.00	70.00	72.00	75.00	80.00	70.00	90.00
Furnishing on the ditch each 14-in. valve.............	1	49.00	55.00	61.00	60.00	50.00	60.00	60.00	71.25	50.00	72.00
Furnishing on the ditch each 12-in. valve.............	5	36.00	35.00	40.00	38.00	35.00	39.00	40.00	40.00	40.00	46.00
Furnishing on the ditch each 10-in. valve.............	10	25.75	25.00	28.00	25.00	25.00	30.00	30.00	30.00	30.00	35.00
Furnishing on the ditch each 8-in. valve.............	1	19.25	18.50	21.00	20.00	20.00	21.00	20.00	22.00	20.00	25.00
Furnishing on the ditch each 6-in. valve.............	110	13.25	12.65	14.00	13.00	15.00	14.00	15.00	15.50	14.00	16.00
Furnishing on the ditch each 4-in. valve.............	110	8.40	8.00	9.00	8.50	10.00	10.00	10.00	10.00	8.00	10.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles on ditch	185	24.75	25.00	28.00	24.00	30.00	28.00	27.00	26.40	26.00	33.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle..................................	5	27.00	26.50	31.00	26.50	35.00	30.00	30.00	29.10	30.00	36.00
Furnishing 6-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle..................................	5	35.20	35.00	40.00	37.00	40.00	39.00	40.00	38.00	40.00	48.00
Setting all hydrants and furnishing concrete base and porous filling	195	4.00	2.00	5.50	3.00	5.00	6.00	3.00	5.25	7.50	10.00
Furnishing each 4-in. "Rapp" screw plug.............	90	1.35	.90	.85	1.25	1.00	1.50	1.30	1.45	1.20	1.00
Furnishing each 6-in. "Rapp" screw plug.............	40	2.50	1.30	1.40	1.65	1.50	2.00	1.70	2.10	1.60	1.50
Furnishing each 8-in. "Rapp" screw plug.............	10	3.50	1.90	2.00	2.50	2.00	3.00	2.30	3.70	2.25	2.00
Furnishing cast-iron valve boxes, cast-iron manhole covers and frames, per lb..........................	10,000 lbs.	.02½	.03	.04	.03¼	.03	.04	.05	.04½	.06	.05
Lumber in place, per 1,000 ft. B. M................	100,000 ft. B. M......	25.00	2.00	13.00	30.00	30.00	30.00	35.00	30.00	30.00	40.00
Blocks and wedges, per 1,000 ft. B. M...............	20,000 ft. B. M......	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Extra excavation, per cu. yd.......................	200 cu. yds.......	.75	.60	.50	.75	1.00	1.00	2.00	.75	.70	3.00
Brick masonry, per cu. yd..........................	10 cu. yds.......	15.00	12.00	8.00	12.00	12.00	15.00	15.00	20.00	15.00	15.00
Concrete masonry, per cu. yd.......................	10 cu. yds.......	15.00	8.00	6.50	12.00	12.00	12.00	12.00	20.00	12.00	15.00
4-in. vitrified clay drain tile in place, per lin. ft.........	100 lin. ft.	.10	.60	.25	.25	.50	.50	.60	.50	.20	.50
Pavements taken up & relaid for each sq. ft. asphalt....	270 sq. yds.......	3.00	4.00	3.50	3.50	4.00	4.00	4.00	3.50	3.50	4.50
Pavements taken up & relaid for each sq. yd. Belg'n blk.	10 sq. yds.......	1.00	1.00	1.50	2.00	2.00	2.50	.60	2.00	3.00	.80
Pavements taken up & relaid for each sq. yd. vitrified brk	10 sq. yds.......	1.00	2.00	2.00	2.00	2.00	2.50	1.35	2.00	4.00	2.00
Pavements taken up & relaid for each sq. yd. square block	10 sq. yds.......	.40	.75	.50	1.00	1.00	.60	.75	.75	.75	.80
Pavements taken up & relaid for each sq. yd. cobble stone	10 sq. yds.......	.75	.50	.50	1.00	1.00	.60	.60	.75	.60	.80
Pavements taken up & relaid for each sq. yd. gravel....	2,100 sq. yds.......	.45	.10	.70	.60	.50	.50	.75	.60	.60	.60
Pavements taken up & relaid for each sq. yd. shell......	2,000 sq. yds.......	.45	.20	.60	.50	.50	.50	.60	.60	.60	.60
Pavements taken up & relaid for each lin. ft. plank....	500 lin. ft.	.20	.10	.20	.25	.50	.30	.40	.40	.50	.80
Sidewalk pavements taken up & relaid for each sq. yd Schillinger	10 sq. yds.......	1.00	1.20	1.00	3.00	2.00	1.50	1.35	1.75	2.00	2.00
Sidewalk pavements taken up and relaid..............	10 sq. yds.......	.75	.50	.50	2.00	1.00	.75	.50	1.00	2.00	.80
Sidewalk pavements taken up and relaid..............	10 sq. yds.......	.50	.50	.50	2.00	1.00	.75	.90	1.00	1.50	.80
Old curbing removed and reset, per lin. ft.............	100 lin. ft.	.20	.30	.20	1.25	.50	.20	.25	.50	1.00	.50
All steel beams, chimneys, angles, tees and web plates, bolted and riveted in place, per ton of 2,000 lbs......	1 ton	75.00	65.00	200.00	100.00	150.00	150.00	125.00	90.00	100.00	120.00
All corrugated steel bars in place, per lb..............	100 lbs.	.05	.10	.05	.10	.05	.10	.10	.08	.10	.12
Each cu. yd. of cinders, furnished and placed..........	10 cu. yds.......	2.00	1.50	1.00	2.00	2.00	1.25	2.50	1.25	2.00	3.00
Each cu. yd. of oyster shells, furnished and placed....	10 cu. yds.......	2.50	2.50	1.50	2.50	2.50	2.00	2.60	1.50	2.00	4.00
Each cu. yd. of sand, furnished and placed.............	10 cu. yds.......	2.50	2.00	1.50	2.50	2.50	1.00	2.60	2.10	2.00	3.00
Each cu. yd. of gravel, furnished and placed...........	10 cu. yds.......	3.00	3.00	3.00	3.00	3.50	5.00	3.25	3.10	3.00	4.00
Each cu. yd. of clam shells, furnished and placed......	10 cu. yds.......	2.50	2.50	2.00	4.00	3.00	2.00	2.70	3.00	3.00	4.00
Total		$46,535.50	$47,803.00	$55,713.00	$56,753.50	$57,415.00	$69,367.50	$72,962.50	$73,912.50	$75,045.50	$79,718.50

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "10-W."

Items.	Quantity.	(A)	(B)	(D)	(C)	(E)	(G)	(H)	(F)	(I)	(J)
Unloading pipe and specials from cars to wagon and unloading at point of delivery, per ton of 2,000 lbs.	3,500 tons	$0.20	$0.25	$0.40	$0.40	$0.40	$0.50	$0.40	$0.40	$0.50	$0.50
Unloading pipe and specials from cars in yard and properly piling same, per ton of 2,000 lbs.	250 tons	.20	.25	.25	.50	.40	.50	.25	.40	.50	.75
Loading from yard and unloading at point of delivery, per ton of 2,000 lbs.	250 tons	.20	.25	.40	.40	.40	.45	.40	.50	.50	.50
Each 100 ft. of haul from point of loading to point of unloading, per ton of 2,000 lbs.	250,000 ton 100 ft.	.01¼	.01	.00¾	.01	.01	.02	.01½	.02	.02	.02
Laying all water pipe, per lin. ft.	500 lin. ft.	.95	1.20	1.15	1.00	1.00	1.25	1.30	1.25	1.25	1.15
Laying all water pipe, per lin. ft.	500 lin. ft.	.75	.85	.85	.90	.80	1.00	1.00	1.00	1.10	1.05
Laying all water pipe, per lin. ft.	500 lin. ft.	.60	.82	.75	.75	.75	1.00	.85	.90	1.00	.90
Laying all water pipe, per lin. ft.	500 lin. ft.	.54	.65	.65	.70	.70	.70	.75	.75	.90	.80
Laying all water pipe, per lin. ft.	500 lin. ft.	.48	.50	.55	.60	.60	.65	.65	.70	.80	.75
Laying all water pipe, per lin. ft.	11,000 lin. ft.	.40	.48	.45	.53	.50	.50	.60	.65	.70	.65
Laying all water pipe, per lin. ft.	2,800 lin. ft.	.32	.35	.37	.38	.40	.50	.55	.45	.50	.55
Laying all water pipe, per lin. ft.	9,500 lin. ft.	.26	.38	.31	.30	.35	.40	.40	.40	.40	.50
Laying all water pipe, per lin. ft.	104,000 lin. ft.	.21	.25	.26	.25	.25	.33	.35	.35	.35	.35
Laying all water pipe, per lin. ft.	80,000 lin. ft.	.16	.22	.21	.22	.20	.28	.30	.30	.30	.30
Furnishing on the ditch each 24-in. valve	1	170.00	187.00	200.00	210.00	175.00	210.00	204.00	205.00	240.00	245.00
Furnishing on the ditch each 24-in. valve	1	105.00	115.00	120.00	131.00	120.00	130.00	126.00	126.00	120.00	170.00
Furnishing on the ditch each 18-in. valve	1	84.00	92.00	100.00	105.00	106.00	100.00	117.00	104.00	80.00	127.00
Furnishing on the ditch each 16-in. valve	1	65.00	70.00	75.00	75.00	70.00	75.00	80.00	82.00	70.00	90.00
Furnishing on the ditch each 14-in. valve	1	49.00	55.00	60.00	61.00	50.00	60.00	71.25	70.00	50.00	72.00
Furnishing on the ditch each 12-in. valve	12	36.00	35.00	38.00	40.00	35.00	40.00	40.00	50.00	40.00	46.00
Furnishing on the ditch each 10-in. valve	5	26.00	25.00	25.00	28.00	25.00	30.00	30.00	40.00	30.00	35.00
Furnishing on the ditch each 8-in. valve	15	19.50	18.50	20.00	21.00	20.00	20.00	20.00	21.00	20.00	25.00
Furnishing on the ditch each 6-in. valve	210	13.25	12.65	13.00	14.00	15.00	15.00	15.50	14.00	14.00	16.00
Furnishing on the ditch each 4-in. valve	170	8.50	8.00	8.50	9.00	10.00	10.00	10.00	10.00	8.00	10.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles, on ditch	285	24.75	25.00	24.00	28.00	30.00	27.00	26.40	28.00	26.00	33.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle	5	27.00	26.50	26.50	31.00	35.00	30.00	29.10	30.00	30.00	36.00
Furnishing 6-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle	5	35.00	35.00	37.00	40.00	40.00	40.00	38.00	39.00	40.00	48.00
Setting all hydrants and furnishing concrete base and porous filling	295	4.00	2.00	3.00	5.00	5.00	3.00	5.25	10.00	7.50	10.00
Furnishing each 4-in. "Rapp" screw plug	140	1.25	.90	1.25	.85	1.00	1.30	1.45	1.50	1.20	1.00
Furnishing each 6-in. "Rapp" screw plug	110	2.25	1.30	1.65	1.40	1.50	1.70	2.10	2.00	1.60	1.50
Furnishing each 8-in. "Rapp" screw plug	10	3.75	1.90	2.50	2.00	2.00	2.30	3.70	3.00	2.25	2.00
Furnishing all cast-iron valve boxes, cast-iron manhole covers and frames, per lb.	15,000 lbs.	.02½	.03	.03¼	.04	.03	.05	.04½	.04	.06	.05
Lumber in place, per 1,000 ft. B. M.	130,000 ft. B. M.	25.00	2.00	30.00	13.00	30.00	35.00	30.00	30.00	30.00	40.00
Blocks and wedges, per 1,000 ft. B. M.	30,000 ft. B. M.	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Extra excavation, per cu. yd.	200 cu. yds.	1.00	.60	.75	.60	1.00	2.00	.70	1.00	.70	3.00
Brick masonry, per cu. yd.	10 cu. yds.	15.00	12.00	12.00	12.00	12.00	15.00	20.00	15.00	15.00	15.00
Concrete masonry, per cu. yd.	10 cu. yds.	15.00	8.00	12.00	10.00	12.00	12.00	20.00	12.00	12.00	15.00
4-in. vitrified clay drain tile in place, per lin. ft.	100 lin. ft.	.25	.60	.25	.30	.50	.60	.50	.50	.20	.50
Pavements taken up & relaid for each sq. yd. of asphalt.	600 cu. yds.	3.50	4.00	3.50	3.50	4.00	.40	3.50	4.00	3.50	4.50
Pavements taken up & relaid for each sq. yd. Belgi'n blk.	10 sq. yds.	.50	1.00	2.00	2.00	2.00	.60	2.00	2.50	3.00	.80
Pavements taken up & relaid for each sq. yd. vitrified brk	60 sq. yds.	.75	2.00	2.00	2.00	2.00	1.35	2.00	2.50	4.00	2.00
Pavements taken up & relaid for each sq. yd. square block	10 sq. yds.	.50	.75	1.00	.60	1.00	.75	.75	.60	.75	.80
Pavements taken up & relaid for each sq. yd. cobble stone	10 sq. yds.	.75	.50	1.00	.60	1.00	.60	.75	.60	.60	.80
Pavements taken up & relaid for each sq. yd. of gravel..	8,000 sq. yds.	.50	.20	.60	.75	.45	.60	.60	.60	.60	.60
Pavements taken up & relaid for each sq. yd. of shell..	1,300 sq. yds.	.50	.30	.50	.60	.45	.60	.60	.50	.60	.60
For each lin. ft. of plank	6,600 lin. ft.	.20	.10	.25	.20	.50	.40	.40	.30	.50	.60
Sidewalk pavements taken up and relaid for each sq. yd. of Schillinger	10 sq. yds.	1.10	1.20	3.00	1.00	2.00	1.35	1.75	1.50	2.00	2.00
Sidewalk pavements taken up and relaid for each sq. yd. of flagging	10 sq. yds.	.75	.50	2.00	.60	1.00	.50	1.00	.75	2.00	.80
Sidewalk pavements taken up and relaid for each sq. yd. of brick	10 sq. yds.	.50	.50	2.00	.60	1.00	.90	1.00	.75	1.50	.80
Old curbing removed and reset, per lin. ft.	100 lin. ft.	.20	.30	1.25	.30	.50	.25	.50	.20	1.00	.50
Steel beams, channels, angles, tees and web plates bolted & riveted in place, per ton of 2,000 lbs.	1 ton	75.00	65.00	100.00	200.00	150.00	125.00	90.00	150.00	100.00	120.00
Corrugated steel bars in place, per lb.	100 lbs.	.05	.10	.10	.06	.05	.10	.08	.10	.10	.12
Each cu. yd. of cinders furnished and placed	10 cu. yds.	2.00	1.50	2.00	1.00	2.00	2.50	1.75	1.00	2.00	3.00
Each cu. yd. of oyster shells furnished and placed	10 cu. yds.	3.00	2.50	2.50	1.50	2.50	2.60	1.50	2.00	2.00	4.00
Each cu. yd. of sand furnished and placed	10 cu. yds.	2.50	2.00	2.50	1.50	2.50	2.60	2.10	1.50	2.00	3.00
Each cu. yd. of gravel furnished and placed	10 cu. yds.	3.00	3.00	3.00	3.00	3.50	3.25	3.10	4.00	3.00	4.00
Each cu. yd. of clam shells furnished and placed	10 cu. yds.	2.50	2.50	4.00	2.00	3.00	2.70	3.10	2.00	3.00	4.00
For laying all 30-in. water pipe, per lin. ft.	1,000 lin. ft.	1.20	1.50	1.55	1.25	1.30	2.00	1.75	1.75	2.50	2.50
For furnishing on the ditch each 30-in. valve	1	330.00	330.00	350.00	375.00	350.00	375.00	360.00	400.00	375.00	475.50
Total		$77,515.75	$82,003.00	$89,625.00	$91,419.00	$92,720.00	$110,574.00	$115,241.00	$118,014.00	$119,607.50	$126,751.00

BIDS RECEIVED MAY 15 BY THE SEWERAGE AND WATER BOARD, NEW ORLEANS, LA., ON CONTRACT "11-W."

Items.	Quantity.	(A)	(B)	(D)	(E)	(C)	(G)	(F)	(H)	(I)	(J)
Unloading pipe and specials from cars to wagon per ton of 2,000 lbs.	4,000 tons	$0.15	$0.25	$0.40	$0.40	$0.40	$0.50	$0.30	$0.40	$0.50	$0.50
Unloading pipe and specials in yard and piling, per ton of 2,000 lbs.	250 tons	.20	.25	.25	.40	.50	.50	.30	.25	.50	.75
Loading from yard and unloading, per ton of 2,000 lbs..	250 tons	.20	.25	.40	.40	.40	.45	.50	.40	.50	.50
Each 100 ft. of haul to point of unloading, per ton of 2,000 lbs.	250,000 ton 100 ft.	.01¼	.01	.¾¢	.01	.01	.02	.01½	.01½	.02	.02
Laying all 24-in. water pipe, per lin. ft.	6,500 lin. ft.	.90	1.35	1.15	1.00	1.00	1.15	1.25	1.30	1.25	1.15
Laying all 24-in. water pipe, per lin. ft.	500 lin. ft.	.68	.85	.85	.85	.90	1.00	1.00	1.00	1.10	1.05
Laying all 18-in. water pipe, per lin. ft.	500 lin. ft.	.60	.82	.75	.75	.75	1.00	.90	.85	1.00	.90
Laying all 16-in. water pipe, per lin. ft.	500 lin. ft.	.53	.65	.65	.70	.70	.70	.75	.75	.90	.80
Laying all 14-in. water pipe, per lin. ft.	500 lin. ft.	.45	.50	.55	.60	.60	.65	.60	.65	.80	.75
Laying all 12-in. water pipe, per lin. ft.	16,500 lin. ft.	.38	.48	.45	.50	.53	.50	.55	.60	.70	.65
Laying all 10-in. water pipe, per lin. ft.	800 lin. ft.	.32	.35	.37	.40	.38	.50	.45	.55	.50	.55
Laying all 8-in. water pipe, per lin. ft.	1,000 lin. ft.	.25	.32	.31	.35	.30	.40	.40	.40	.40	.50
Laying all 6-in. water pipe, per lin. ft.	75,000 lin. ft.	.21	.25	.26	.25	.25	.33	.35	.35	.35	.35
Laying all 4-in. water pipe, per lin. ft.	83,000 lin. ft.	.16	.22	.21	.20	.22	.28	.30	.30	.30	.30
Furnishing on the ditch each 24-in. valve	5	187.00	187.00	200.00	175.00	210.00	210.00	195.00	204.00	240.00	245.00
Furnishing on the ditch each 24-in. valve	3	115.00	115.00	120.00	120.00	131.00	130.00	116.00	126.00	120.00	170.00
Furnishing on the ditch each 18-in. valve	1	85.00	92.00	100.00	100.00	105.00	100.00	94.00	117.00	80.00	127.00
Furnishing on the ditch each 16-in. valve	1	65.00	70.00	75.00	70.00	80.00	75.00	72.00	80.00	70.00	90.00
Furnishing on the ditch each 14-in. valve	1	50.00	55.00	60.00	50.00	61.00	60.00	60.00	71.25	50.00	72.00
Furnishing on the ditch each 12-in. valve	22	36.00	35.00	38.00	35.00	43.00	40.00	39.00	40.00	40.00	46.00
Furnishing on the ditch each 10-in. valve	3	26.00	25.00	25.00	25.00	28.00	30.00	30.00	30.00	30.00	35.00
Furnishing on the ditch each 8-in. valve	12	19.50	18.50	20.00	20.00	21.00	20.00	21.00	22.00	20.00	25.00
Furnishing on the ditch each 6-in. valve	145	13.25	12.65	13.00	15.00	14.00	15.00	14.00	15.50	14.00	16.00
Furnishing on the ditch each 4-in. valve	190	8.50	8.00	8.50	10.00	9.00	10.00	10.00	10.00	8.00	10.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles, on ditch	200	24.75	25.00	24.00	30.00	28.00	27.00	28.00	26.40	26.00	33.00
Furnishing 4-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle	5	27.00	26.50	26.50	35.00	31.00	30.00	30.00	29.10	30.00	36.00
Furnishing 6-in. hydrants, with 2 2½-in. nozzles and one steamer nozzle	5	35.20	35.00	37.00	40.00	40.00	40.00	39.00	38.00	40.00	48.00
Setting all hydrants and furnishing concrete base and porous filling	210	4.00	2.00	3.00	5.00	5.00	3.00	6.00	5.25	7.50	10.00
Furnishing each 4-in. "Rapp" screw plug	110	1.25	.90	1.25	1.00	.85	1.30	1.50	1.45	1.20	1.00
Furnishing each 6-in. "Rapp" screw plug	80	2.25	1.30	1.65	1.50	1.40	1.70	2.00	2.10	1.60	1.50
Furnishing each 8-in. "Rapp" screw plug	45	3.50	1.90	2.50	2.00	2.00	2.30	3.00	3.70	2.25	2.00
Furnishing all cast-iron valve boxes, cast-iron manhole covers and frames, per lb.	16,000 lbs.	.02½	.03	.03¼	.03	.04	.05	.04	.04½	.06	.05
Lumber required under pipe, valve chambers, &c, per 1,000 ft. B. M.	120,000 ft. B. M.	25.00	2.00	30.00	30.00	13.00	35.00	30.00	30.00	30.00	40.00
Blocks and wedges, per 1,000 ft. B. M.	30,000 ft. B. M.	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Extra excavation, per cu. yd.	200 cu. yds.	1.00	1.00	.75	1.00	.60	2.00	1.00	.75	.70	3.00
Brick masonry, per cu. yd.	20 cu. yds.	15.00	12.00	12.00	12.00	12.00	15.00	15.00	20.00	15.00	15.00
Concrete masonry, per cu. yd.	10 cu. yds.	15.00	8.00	12.00	12.00	10.00	12.00	12.00	20.00	12.00	15.00
4-in. vitrified clay drain tile in place, per lin. ft.	100 lin. ft.	.25	.60	.25	.50	.30	.60	.50	.50	.20	.50
Each sq. yd. of asphalt taken up and relaid	600 sq. yds.	3.50	4.00	3.50	4.00	3.00	4.00	4.00	3.50	3.50	4.50
Each sq. yd. of Belgian block taken up and relaid	100 sq. yds.	.50	1.00	2.00	2.00	2.00	.60	2.50	2.00	3.00	.80
Each sq. yd. of vitrified brick taken up and relaid	10 sq. yds.	.80	2.00	2.00	2.00	2.00	1.35	2.50	2.00	4.00	2.00
Each sq. yd. of square block taken up and relaid	100 sq. yds.	.55	.75	1.00	1.00	.60	.75	.60	.75	.75	.80
Each sq. yd. of cobble stone taken up and relaid	10 sq. yds.	.50	.50	1.00	1.00	.50	.60	.60	.75	.60	.80
Each sq. yd. of gravel taken up and relaid	13,500 sq. yds.	.45	.20	.60	.45	.70	.60	.50	.60	.60	.60
Each sq. yd. of shell taken up and relaid	420 sq. yds.	.50	.30	.50	.45	.60	.60	.50	.60	.60	.60
Each lin. ft. of plank taken up and relaid	3,500 lin. ft.	.20	.10	.25	.50	.20	.40	.30	.40	.50	.80
Each sq. yd. of Schillinger taken up and relaid	10 sq. yds.	1.10	1.20	3.00	2.00	1.00	1.35	1.50	1.75	2.00	2.00
Each sq. yd. of flagging taken up and relaid	10 sq. yds.	.75	.50	2.00	1.00	.60	.50	.75	1.00	2.00	.80
Each sq. yd. of brick taken up and relaid	10 sq. yds.	1.00	.50	2.00	1.00	.60	.90	.70	1.00	1.50	.80
Old curbing removed and reset, per lin. ft.	100 lin. ft.	.20	.30	1.25	.50	.30	.25	.20	.50	1.00	.50
Steel beams, &c., bolted and riveted in place per ton of 2,000 lbs.	1 ton	75.00	65.00	100.00	150.00	200.00	125.00	150.00	90.00	100.00	120.00
Corrugated steel bars in place, per lb.	100 lbs.	.05	.10	.10	.05	.06	.10	.10	.08	.10	.12
Each cu. yd of cinders furnished and placed	10 cu. yds.	2.50	1.50	2.00	2.00	1.00	2.50	1.00	1.75	2.00	3.00
Each cu. yd of oyster shells furnished and placed	10 cu. yds.	3.00	2.50	2.50	2.50	1.50	2.60	2.00	1.50	2.00	4.00
Each cu. yd. of sand furnished and placed	10 cu. yds.	2.50	2.00	2.50	2.50	1.50	2.60	1.00	2.10	2.00	3.00
Each cu. yd. of gravel furnished and placed	10 cu. yds.	3.00	3.00	3.00	3.50	3.00	3.25	4.00	3.10	3.00	4.00
Each cu. yd. of clam shells furnished and placed	10 cu. yds.	2.50	2.50	4.00	3.00	2.00	2.70	2.00	3.10	3.00	4.00
Total		$78,743.75	$79,492.25	$87,464.00	$87,594.00	$89,095.50	$108,560.50	$107,099.50	$110,212.75	$113,829.25	$118,491.50

GRADING, PLANKING, ETC.—Seattle, Wash.—STIRRAT & GOETZ, 602 Bailey Bldg., Seattle, Wash., have been awarded contract for improvement of Pike Place and other streets. Bids were received on May 12. The bidders were; (A) F. McLellan & Co., Burke Bldg.; (B) Sparger Concrete Co., Colman Block; (C) James Markey; (D) Stirrat & Goetz, 602 Bailey Bldg.; (E) Seattle Stone Co., Globe Bldg.; all are local contractors:

	(A)	(B)	(C)	(D)	(E)
Fixed estimate	$1,500.00	$1,500.00	$1,500.00	$1,500.00	$1,500.00
Clearing and grubbing, lump sum	300.00	200.00	350.00	200.00	600.00
20,000 cu. yds. earthwork	.20	.20	.30	.20	.35
384 M. ft. B. M. planking, etc	19.00	20.00	18.00	18.00	18.00
20 lin. ft. 6-in. pipe sewer	1.00	.60	1.00	1.00	.80
140 lin. ft. 8-in. pipe sewer	1.75	1.00	1.40	1.10	1.00
270 lin. ft. 10-in. pipe sewer	1.40	1.50	1.50	1.30	1.40
3 manholes	65.00	75.00	80.00	60.00	75.00
5 catch basins, 1 inlet	70.00	50.00	65.00	60.00	65.00
3 catch basins to be rebuilt	30.00	20.00	55.00	40.00	50.00
1 single inlet	15.00	20.00	30.00	12.00	25.00
3 inlets to be moved	6.00	10.00	22.50	5.00	5.00
2 manhole covers to be adjusted	20.00	10.00	10.00	4.00	35.00
25 lin. ft. granite curbing reset	2.00	1.00	1.00	.60	.50
55 sq. yds. brick pavement, new	2.60	4.00	3.00	3.00	3.50
30 lin. ft. wooden stops	.50	.60	1.00	.50	.17
74 M. ft. B. M. bulkhead lumber	23.00	20.00	25.00	20.00	21.00
30,000 lbs. iron	.06	.06	.05	.06	.07
360 oak blocks	.60	.40	.40	.75	.30
680 lin. ft. wood railing	.20	.20	.25	.20	.20
112 piles	8.00	7.00	7.00	9.00	11.00
150 cu. yds. concrete retaining wall	8.50	8.00	10.50	9.00	9.00
130 lin. ft. pipe railing	2.00	1.50	1.40	1.00	.50
1,300 sq. ft. cement mortar facing	.10	.15	.10	.10	.30
660 lin. ft. concrete steps	.60	1.00	.80	.80	1.00
10 sq. yds. concrete landing	1.30	1.50	1.25	1.50	1.50
225 lin. ft. iron railing	1.25	1.50	1.40	1.25	.25
Total amount of bid	$21,760	$21,751	$23,773	$21,095	$25,232

BRICK AND SANDSTONE PAVING.—Seattle, Wash.—Bids were received on May 12 for improvement of Seventh Ave., paving it with brick and sandstone. The bidders and itemized bids were: (1) F. McLELLAN & CO., Burke Bldg. (awarded contract); (2) Sparger Concrete Co., Colman Block; (3) James Markey; (4) Stirrat & Goetz, 602 Bailey Bldg; (5) Seattle Stone Co., Globe Block; (6) Barber Asp. Pav. Co., 612 Mutual Life Bldg.; (7) T. Ryan & Co., Sullivan Block; all are local contractors:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Fixed estimate	$1,600.00	$1,600.00	$1,600.00	$1,600.00	$1,600.00	$1,600.00	$1,600.00
Clearing and grubbing, lump sum	500.00	600.00	1,000.00	550.00	250.00	1,000.00	800.00
3,500 cu yds. sub-grading	.30	.50	.35	.20	.50	.30	.30
5 adjust M. H. & C. B.'s	5.00	5.00	15.00	2.00	10.00	3.00	5.00
5 moving catch basins	40.00	35.00	55.00	35.00	25.00	15.00	25.00
1 single inlet	25.00	15.00	15.00	12.00	40.00	15.00	14.00
1 catch basin, 1 inlet	50.00	60.00	75.00	60.00	60.00	60.00	60.00
1 catch basin, no inlet	50.00	50.00	60.00	48.00	50.00	50.00	40.00
2,927 lin. ft. straight granite curb	1.37	1.80	1.75	1.50	1.40	1.50	1.70
154 lin. ft. curved granite curb	1.75	2.00	2.00	1.75	1.50	1.70	1.90
110 lin. ft. reset granite curb	.30	1.40	.75	.60	.50	.70	.70
600 sq. yds. concrete, sidewalk repair	1.30	1.20	1.30	8.00	.85	1.25	1.30
3,500 lin. ft. sub-drain	.07	.12	.20	.08	.10	.07	.10
4,400 sq. yds. sandstone pavement	3.00	3.60	3.43	3.55	3.40	3.60	3.40
2,520 sq. yds. brick pavement	2.38	2.60	2.84	2.55	2.45	2.60	2.60
7,200 sq. yds. gravel foundation	.10	.15	.17	.16	.18	.15	.15
330 sq. yds. brick gutters	2.38	2.60	3.00	2.55	2.75	2.60	2.50
170 lin. ft. wooden stops	.60	.50	.60	.50	.50	.50	.60
20 sq. yds. relaying concrete alley fixings	1.35	1.25	1.50	1.60	1.50	1.75	1.40
3 monument cases	7.00	6.00	15.00	8.00	8.50	5.00	8.00
12 inlets to be moved	10.00	8.00	10.00	4.00	25.00	2.50	6.00
1,450 lin. ft. 12-in. c.-i. pipe, Class "A"	2.56	2.55	2.57	2.25	2.40	2.45	2.20
1 24-in. gate, with by-pass	195.00	300.00	275.00	250.00	250.00	225.00	225.00
7 12-in. gates	50.00	55.00	55.00	45.00	60.00	45.00	50.00
5 6-in. gates	20.00	25.00	30.00	15.00	25.00	15.00	20.00
Connecting existing hydrants, lump sum	30.00	15.00	30.00	10.00	25.00	10.00	20.00
9 brick gate chambers	50.00	50.00	40.00	40.00	50.00	30.00	28.00
3 valve boxes, wood	7.00	10.00	30.00	3.00	10.00	5.00	5.00
Totals	$34,712	$40,733	$41,122	$41,931	$37,739	$38,601	$38,031

*SEWER SYSTEM AND DISPOSAL PLANT.—Ravenna, Ohio.—Bids were received on May 15 by E. W. Marcin, Village Clk., for installing a system of sewers. The bidders and the itemized bids submitted were as follows; (A) HANLON CONSTRUCTION CO., Cleveland, Ohio (awarded contract for sewer system); (B) John O'Neill; (C) W. S. Pace; (D) W. C. Fishburn; (E) Ajax Construction Co; (F) Huonker & Williams; (G) McShaffrey & Son; (H) Macalonan Bros.; (I) J. B. McLane; (J) C. T. McCracken; (K) James Ferry & Son; (L) W. J. Townsend & Co.; Williams, Proctor & Potts, 17 Battery Place, New York City, are Engrs.:

BIDS RECEIVED AT RAVENNA, OHIO, FOR SEWERS, MAY 15, 1906.

	(A)	B		(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
		Units.	Total.										
38,170 ft. laying 8″ sewer pipe	$0.23	.....	$8,840.00	$0.27	$0.28	$0.26	$0.30	$0.28	$0.41	$0.45	$0.50⅓	$0.36	$0.55
14,836 ft. laying 10″ sewer pipe	.29	.....	4,150.00	.33	.33	.32	.35	.40	.55	.53	.51	.60	.73
4,893 ft. laying 12″ sewer pipe	.31	.....	1,223.00	.38	.39	.53	.40	.45	.48	.53	.56	.62	.73
5,725 ft. laying 15″ pipe, 0′-10′ cut	.48½	.....	1,431.00	.30	.46	.43½	.40	.45	.50	.72	.70½	.60	.80
880 ft. laying 15″ pipe, 10′-15′ cut	.78	.....	440.00	.56	.70	.70½	.90	1.15	.95	.93	1.11	1.30	.83
3,406 ft. laying 15″ pipe, 15′-22′ cut	1.16	.....	5,960.00	1.58	1.60	1.44½	2.10	2.52	1.60	1.58	2.00	3.00	1.52
1,001 ft. laying 18″ pipe, 0′-10′ cut	.76	.....	350.00	.33	.55	1.51	.40	.60	.55	.57	.72	1.25	.94
319 ft. laying 18″ pipe, 10′-15″ cut	.90	.....	239.25	.87	1.00	1.85	.90	1.00	1.25	.91	1.03	1.80	.97
4,553 ft. laying 18″ pipe, 15′-22″ cut	1.33	.....	2,494.00	1.85	1.53	2.27	2.20	2.50	1.75	1.70	1.83	2.75	2.41
1,001 ft. 18″ concrete sewer, 0′-10′ cut	2.73	.....	3,002.00	1.25	1.30	2.97	1.05	1.30	1.77	4.00	....	2.25	1.65
319 ft. 18″ concrete sewer, 10′-15′ cut	2.86	.....	1,275.00	2.00	1.76	3.31	1.55	1.95	2.00	4.00	....	2.75	1.70
1,553 ft. 18″ concrete sewer, 15′-22′ cut	3.33	.....	8,541.00	3.75	2.40	3.73	2.85	4.90	2.60	4.00	....	3.75	3.06
5 tons c.-i. culvert pipe	35.00	.....	205.00	35.00	40.00	45.00	35.00	37.00	33.00	60.00	35.00	35.00	40.00
150 manholes, 0′-10′ cut	30.00	.....	5,100.00	27.00	29.00	33.00	30.00	30.00	35.00	28.00	30.00	40.00	32.00
20 manholes, 10′-15′ cut	41.00	.....	840.00	37.00	35.00	40.00	40.00	40.00	45.00	32.00	37.50	50.00	38.00
12 manholes, 15′-22′ cut	58.00	.....	720.00	40.00	48.00	55.00	50.00	65.00	56.00	45.00	45.00	70.00	44.00
56 flushing manholes	35.00	.....	2,968.00	45.00	45.00	40.00	50.00	30.00	45.00	45.00	35.00	45.00	93.00
5 rosewater special flush tanks	75.00	.....	310.00	50.00	85.00	70.00	80.00	70.00	95.00	100.00	125.00	85.00	100.00
54 lampholes	7.00	.....	341.00	8.00	3.00	4.75	10.00	9.00	10.00	6.00	4.00	7.00	8.00
1,000 ft. foundation lumber	22.00	35.00	35.00	30.00	25.00	40.00	30.00	39.00	32.00	50.00	40.00	45.00	29.00
1,000 ft. B. M. lumber	25.00	35.00	35.00	30.00	22.00	40.00	25.00	30.00	28.00	50.00	30.00	40.00	24.00
1 yd. Rock	2.00	1.50	1.50	5.01	3.00	4.00	4.00	2.50	1.50	4.00	5.00	6.00	4.00
1 yd. concrete	6.00	5.00	5.00	8.00	6.00	6.00	8.00	6.00	5.80	7.00	10.00	8.00	6.00
5,000 ft. deep house con	.25	.25	1,250.00	.15	.20	.15	.50	.15	.10	.20	4.00	.25	.30
1,750 ft. 10″ c.-i. siphon	1.00	.....	1,830.00	1.50	1.50	1.31	1.20	1.27	.85	1.50	1.53	1.00	1.45
600 ft. 8″ c.-i. siphon	1.00	.....	595.00	1.50	1.30	1.00	.92	1.34	.75	1.25	1.23	1.75	1.45
*Totals	$37,885	.....	$39,367	$41,129	$42,831	$44,338	$47,973	$48,432	$52,000	$54,966	$59,553	$63,107	$68,275

*Concrete pipe not included.

Bidders on disposal plant contract, for which will be required 4,800 cu. yds. of excavation, were as follows: C. T. McCracken, $29,897 for disposal plant; $1 per cu. yd. Ajax Cons. Co., $28,840; 60 cts. W. C. Fishburn, $22,550; 50 cts. McSHAFFREY & SON, Akron, Ohio (awarded contract), $21,673; 30 cts. Macalonan Bros., $32,984; 25 cts. The Pitt. Cons. Co., $26,900; 25 cts. **Wilds & Davidson, $23,608.** W. B. STRATTON, of Toronto, Ohio, was awarded contract for pipe, at $17,462.

*DAM.—Billings, Mont.—The itemized bids received by H. N. Savage, Supervising Engr., U. S. Reclamation Service, at Billings, Mont., on May 10, for the construction of the Lower Yellowstone Dam, were as follows: (A) Campbell, Ferrier Co., 207 Lonsdale Bldg., Duluth, Minn.; (B) Newman & Hoy, St. Paul, Minn.; (C) Pacific Coast Construction Co., 112 Sherlock Bldg., Portland, Ore.; (D) Hughes & Olson, Butte, Mont.:

	(A)*	(B)	(C)	(D)
12,600 lin. ft. piles delivered	$0.30	$0.35	$0.45	$0.48
10,000 lin. ft. piles driven	0.37	0.30	0.15	0.45
175,000 ft. B. M. sheet piles delivered	35.00	50.00	55.00	50.00
26,000 lin. ft. sheet piles driven	0.30	0.25	0.15	0.45
3,500 cu. yds. excavation, wet	3.00	5.00	6.00	8.50
500 cu. yds. excavation, dry	1.25	1.00	0.50	1.00
5,200 cu. yds. rock and gravel filling	3.50	4.00	4.00	4.50
2,000 cu. yds. rock in apron	5.00	5.00	7.00	4.50
550,000 ft. B. M. lumber in place	48.00	50.00	55.00	50.00
85,000 lbs. bolts and spikes in place	0.07½	0.08	0.06	0.10
48 tons 1-in. × 4-in. flat bars in place	90.00	95.00	140.00	140.00
220 cu. yds. concrete	9.50	6.50	10.00	10.00
22,000 lbs. placing steel in concrete	0.07	0.00¾	0.03	0.05
1,500 cu. yds. refilling	1.25	1.00	0.60	0.60
4,500 cu. yds. riprap	4.75	4.50	4.50	3.00
Total	$124,705	$133,665	$142,825	$154,068

***Note.—Our exception to paragraph two (2) on page thirteen (13) next to last line: "To accept one part and reject the other." Our proposal is based upon taking the entire contract. If the award cannot be made as a whole, we do not wish our bid to be considered for any separate part.**

(Signed) Campbell, Ferrier Co.

MISCELLANEOUS CONTRACTS.

(Continued from page 224.)

MONUMENT.—Palestine, Tex.—Bids are asked until July 16 for an $8,000 bronze and granite monument to be erected to Judge John R. Reagan. Address A. G. Greenwood, Palestine.

WHARF.—Fort Munroe, Va.—Bids are asked until noon, July 7, by Capt. R. H. C. Kelton, Constr. Q.-M., for repairing main wharf at Fort Munroe. (Advertised Engineering News.)

DREDGING.—Dunkirk, N. Y.—Contract for deepening the channel and other improvements in Dunkirk Harbor has been awarded to the HINGSTON CO., Buffalo, at about $22,000.

DREDGING.—Portland, Ind.—The contract for dredging Lob ditch and the Little Wabash River for a distance of twelve miles has been awarded to the STURGEON BROS., of this city, at $41,000

LAUNCHES.—New York, N. Y.—Bids are asked until 10 a. m., June 26, by H. T. B. Harris, Paymaster-Gen., U. S. N., Washington, D. C., for building two gasoline launches for the New York Navy Yard.

DREDGING.—New York, N. Y.—The following bids were received by J. A. Bensel, Comr. of Docks, on June 5, for dredging about 100,000 cu. yds. in the North, East and Harlem Rivers: Morris & Cummings Dredging Co., 17 State St., $48,000; International Contract Co., 10 Battery Place, $70,000; W. H. Beard Dredging Co., 21 State St., $56,000; R. G. Packard Co., 130 Pearl St., $48,000.

DIKES.—New York, N. Y.—Bids are asked until noon, July 5, by Col. W. R. Livermore, Engr., U. S. A., Army Bldg., for furnishing rubble, stone and quarry spalls, and repairing dikes in Hudson River, N. Y. (Advertised Engineering News.)

CONCRETE BREAKWATER. — Harbor Beach, Mich.—HUGO & TIMS, of Duluth, have been awarded a contract by the government to build a new breakwater at Harbor Beach to replace the old one, at $385,000.

DREDGING.—Detroit, Mich.—Bids are asked until 2 p. m., July 11, at the U. S. Engineer Office, Jones Bldg., Detroit, for dredging Shoal 28, in Mud Lake, St. Marys River, Mich. Col. E. L. B. Davis is Engr., U. S. A. (Advertised Engineering News.)

WIRELESS APPARATUS.—Washington, D. C.—Bids are asked until noon, June 16, at the Navy Pay Office, Washington, D. C., for six sets of wireless telegraph apparatus, each set to include one complete sending and two complete receiving outfits, and to consist of all parts necessary for successful operation of same, except antennae. The apparatus are to be delivered before Sept. 15, 1906, at the wireless telegraph station, Washington Navy Yard. H. T. B. Harris, Paymaster-Gen., U. S. N.

RAILWAY GRADING.—Vaughan, N. C.—Bids are asked until noon, June 30, by the Greenleaf Johnson Lumber Co., of Norfolk, Va., at Vaughan, N. C., for constructing about three miles of railroad in Warren County, N. C. Specifications are on file at office of Engineering News, New York. (Advertised Engineering News.)

TEST BORINGS.—New York, N. Y.—The lowest bid opened on June [illegible] by the Board of Rapid Transit Commissioners, for making test borings on the lines of the proposed railway routes in the Boroughs of Manhattan, Bronx, Brooklyn and Queens, was submitted by the Healy Sewer Construction Co., 21 Park Row, for $25,660. [illegible] Burrows is Secy.

FERRY PONTOONS.—New York, N. Y.—J. A. Bensel, Comr. of Docks, has received the following bids for building two ferry bridges and pontoons and accessories: P. Sanford Ross, 277 Washington St., Jersey City, $19,900; Wm. H. Jenks, 129 Pearl St., $22,000; Fred. A. Burden [illegible], $22,762; Alexander Miller, 10 Morris St., Jersey City, $25,100; Geo. F. Stewart, 17 Finlay St., Brooklyn, $24,000.

PUMPING STATION.—Williston, N. Dak.—Bids are asked until July 9, at the office of the Reclamation Service, Williston, for the installation of steam and electric pumps, electric generating and transmission apparatus, including three pumping stations containing centrifugal pumps of 20 and 30 cu. ft. per second capacity under heads of from 30 to 50 ft., driven by steam engines and electric motors aggregating 1,200 HP.; also two 300-KW. steam turbine generating units, a 1,000-HP. boiler plant and accessories, the necessary buildings, and three-mile transmission line. Particulars may be had at the office of the Reclamation Service, Washington, or from the engineer at Williston.

TIMBER & PLANK.—Albany, N. Y.—Contracts have been awarded as follows, by N. V. V. Franchot, State Supt. Pub. Wks., for furnishing timber and plank as noted in issue of May 24: MADDEN LUMBER CO., Troy, N. Y., for furnishing 220,000 ft. B. M. white oak, $13,899, and 138,000 ft. B. M. white oak, 357,000 ft. B. M. white pine, 38,000 ft. B. M. Georgia pine, 1,000 ft. B. M. beech and 116,000 ft. B. M. spruce, $19,818; G. ELIAS & BRO., Buffalo, N. Y., for furnishing 384,000 ft. B. M. Georgia pine, $13,415, and 261,000 ft. B. M. white oak, 157,000 ft. B. M. white pine, and 157,000 ft. B. M. Georgia pine, $18,538; H. V. BERRY, Fort Plain, N. Y., for furnishing 371,000 ft. B. M. white pine, $13,524.

BARGE CANAL.—Albany, N. Y.—Plans have been approved for three additional contracts for the Barge Canal, namely, Contracts 7, 15 and 34. Contract 7 is for furnishing and erecting in place steel highway bridge superstructures at the following points: Fourth St., Waterford; three bridges on site of Contract 3, at Fort Miller, Ridge Road and Payne's bridge, Washington County; three bridges on site of Contract 4, Oneida County; one bridge at Mosquito Point, Cayuga County; four bridges on site of Contract 6, Monroe County; at Buffalo Road bridge; Lyell Road bridge; Lee Road bridge and Spier's Road bridge. Engineer's estimate, $102,122. Contract 15 is for excavating the canal and protecting its sides and constructing Lock No. 11, Dam No. 4 and Lock No. 12, Dam No. 5, and appertaining structures; a spillway, a highway, two masonry culverts, five bridges with their piers and abutments and other incidental details, between Lake Champlain at Whitehall, Sta. 0-73 and Sta. 356 on Wood Creek, about 0.6 miles north of Comstock's P. O. Engineer's estimate, $1,380,760. Contract 34 is for constructing a steel highway bridge superstructure at Saratoga Ave., Waterford, over the Barge Canal. One span bridge; capacity to carry 50-ton cars of United Traction Co.; specifications call for 352,000 lbs. structural steel, 29,000 lbs. steel reinforcement. Engineer's estimate, $22,604. N. V. V. Franchot, State Supt. Pub. Wks., Capitol, Albany, will advertise for bids in about two weeks. Henry A. Van Alstyne, State Hall, Albany, is State Engr.

NOTICE TO CONTRACTORS.

F NEW YORK, OFFICE OF THE STATE ENGINEER AND SURVEYOR, .—Pursuant to the provisions of chapter 115 of the Laws of 1898, as amended, posals will be received by the undersigned, at his office in the State Hall, Albany, Thursday, the 28th day of June, 1906, at 12 o'clock noon, for the improvement of ing public highways:

	ame of Road.	County.	Miles.
	oodbury—Central Valley	Orange	3.480
	Northampton	Montgomery	.700
	Reed's Corners	Ontario	2,669
	Cortland—Homer	Cortland	.543
7.	Brunswick Turnpike	Rensselaer	3.100
228.	Saugerties—Kingston	Ulster	5.660
229.	Kingston—High Falls	Ulster	6.930
230.	Kingston—Ellenville, Sec. 1	Ulster	8.270
231.	Post	Ulster	6.890
232.	Old State	Essex	2.640
233.	Frankfort—E. Schuyler	Herkimer	1.640
234.	Adams—Henderson, Sec. 2	Jefferson	6.891
235.	Watertown—Sacketts Harbor—Henderson, Sec. 2	Jefferson	2.225
236.	Redwood—Alexandria Bay, Sec. 2	Jefferson	4.188
237.	Sacketts Harbor	Jefferson	1.450
238.	Henderson Harbor	Jefferson	5.086
240.	Waterford—Cohoes	Saratoga	1,000
241.	Saratoga—Ballston	Saratoga	4.355
242.	Saratoga—Glens Falls, Sec. 2	Saratoga	1.250
243.	Mechanicville—Stillwater	Saratoga	1.840
244.	Saratoga—Schuylerville	Saratoga	6.010
245.	Coleman Hill, Sec. 1	Onondaga	1.212
246.	Gloversville—Meco—Phelps	Fulton	2.030
247.	Johnstown—Kecks Center	Fulton	4.670
248.	Gloversville—Broadalbin	Fulton	2.020
249.	Old Plank	Fulton	3.140
250.	Utica—Oneida Castle, Sec. 1	Oneida	8.53
251.	Griswold Street	Niagara	3.147
252.	Clifton, Sec. 2	Monroe	2.197
253.	Lyell	Monroe	2.121
254.	Chili, Sec. 1	Monroe	3.107
255.	Chili, Sec. 2	Monroe	2.556
256.	Little Ridge, Sec. 3	Monroe	3.601
257.	Little Ridge, Sec. 4	Monroe	3.360
258.	Plattsburg—Keeseville, Sec. 3	Clinton	5.440
259.	Plattsburg—Mooers, Sec. 2	Clinton	7.340
260.	Plattsburg—Mooers, Sec. 3	Clinton	4.310
261.	Peekskill—Salem, Sec. 1	Westchester	5.380
262.	Peekskill—Salem, Sec. 2	Westchester	4.660
263.	Aurora—Buffalo, Sec. 2	Erie	4.227
264.	Aurora—Buffalo, Sec. 3	Erie	.735
265.	Deposit	Broome	2.784
266.	Tunnel	Broome	1.703
267.	Castle Creek	Broome	6.000
268.	Bridge Road	Broome	1.004
269.	Hilton	Monroe	4.300
270.	Birch Hill	Nassau	1.160
271.	Utica—Oneida Castle, Sec. 2	Oneida	8.53
272.	Orchard Park, Sec. 5	Erie	1.213
274.	Gulf Bridge	Broome	1.750
275.	Union—Maine	Broome	3.036
276.	Barnard's Crossing, Secs. 1 and 2	Monroe	4.140
277.	Lake Pleasant—Speculator	Hamilton	3.440
278.	Syracuse—Watertown	Oswego	2.410
279.	West Oswego River	Oswego	2.480
280.	Oswego—Sterling	Oswego	1.660
284.	Averill Park—Crooked Lake	Rensselaer	3.610
285.	Nassau—Brainard	Rensselaer	3.540
287.	Rensselaer—Best	Rensselaer	4.750
288.	Troy—Sand Lake, Sec. 2	Rensselaer	3.720

Sealed proposals will also be received by the undersigned at his office in the State Hall, Albany, N. Y., on Friday, the 29th day of June, 1906, at 12 o'clock noon, for the improvement of the following public highways:

Road No.	Name of Road.	County.	Miles.
289.	Crescent Avenue	Suffolk	1.910
290.	South Salina Street	Onondaga	1.062
291.	Cemetery Road	Onondaga	.889
292.	West Lake, Sec. 2	Onondaga	1.000
293.	East Lake, Sec. 2	Onondaga	1.000
295.	Mohawk River—Floyd	Oneida	2.801
296.	Mohawk River—Marcy	Oneida	4.535
297.	Mohawk River—Deerfield	Oneida	3.740
298.	Amsterdam—Hagaman	Montgomery	2.200
299.	Saulwaters Corners—Young Corners	Montgomery	2.860
300.	DeGraff Corners—Sherburne Corners	Montgomery	1.130
301.	Minaville—Scotch Bush	Montgomery	2.340
302.	Fonda—Berryville	Montgomery	2.000
303.	Fonda—Tribes Hill	Montgomery	2.210
305.	Kingston—Ellenville, Sec. 2	Ulster	7.420
314.	Gilbertsville—Mt. Upton	Otsego	4.370
315.	Morris—Gilbertsville, Sec. 1	Otsego	3.537
316.	Colliersville—Emmons	Otsego	1.260
317.	Shady Side—Otego	Otsego	2.730
318.	Colliersville—Milford Center	Otsego	2.030
319.	Schenevus—Maryland	Otsego	3.660
328.	Valley Road—Marcellus	Onondaga	1.765
329.	Valley Road—Camillus	Onondaga	2.319
330.	Skaneateles—Hamilton, Sec. 1	Onondaga	2.437
331.	Peekskill—Salem Center, Sec. 3	Westchester	3.880
332.	Peekskill—Salem Center, Sec. 4	Westchester	3.770
333.	Geneva—Canandaigua, Sec. 3	Ontario	1.090
334.	Lyons—Geneva	Ontario	1.686
335.	Victor—Mendon, Sec. 1	Ontario	5.200
336.	Cayuga Heights	Tompkins	3.165
338.	Catskill Turnpike, Sec. 2	Tompkins	1.382
339.	Georgetown	Madison	3.287
340.	Saratoga—Corinth	Saratoga	7.250
341.	Stockport—Hudson	Columbia	1.100
343.	Pawling—Patterson	Dutchess	2.230
344.	Millerton—North East Center	Dutchess	1.780
348.	Collamer	Onondaga	1.896
355.	Wellsburg	Chemung	4.512
356.	Erin—Horseheads	Chemung	9.220
357.	Grand Central Avenue	Chemung	1.486
359.	Frankfort—Utica, Sec. 2	Herkimer	1.890
360.	Poland—Cold Brook	Herkimer	.350
361.	Johnstown—Tribes Hill	Fulton	2.220
365.	Guilderland Center—Guilderland	Albany	1.900
367.	Glenmont—Feura Bush	Albany	6.820
368.	Augusta Road—Augusta Section	Oneida	3.377
369.	Augusta Road—Oriskany Falls Section	Oneida	2.985
370.	Minetto	Oswego	.479
371.	Clinton Street, Sec. 1	Erie	5.650
372.	Clinton Street, Sec. 2	Erie	6.140
373.	Goodrich	Erie	8.770
374.	Maine	Broome	3.371
375.	Barker	Broome	.618
377.	Cincinnatus	Cortland	.416
378.	McGrawville	Cortland	2.924
379.	Harford	Cortland	.913
380.	State Road—Homer	Cortland	4.386
381.	State Road—Scott	Cortland	2.720
383.	Owasco	Cayuga	2.190
384.	Fleming	Cayuga	3.165

Sealed proposals will also be received by the undersigned at his office in the State Hall, Albany, N. Y., on Saturday, the 30th day of June, 1906, at 12 o'clock noon, for the improvement of the following public highways:

Road No.	Name of Road.	County.	Miles.
386.	Five Corners—Kuckville, Sec. 1	Orleans	3.473
387.	Five Corners—Kuckville, Sec. 2	Orleans	5.801
388.	Kendalls Corners	Orleans	3.424
396.	Bristol Valley, Sec. 2	Ontario	6.680
404.	Bristol Valley, Sec. 3	Ontario	2.000
406.	Augusta—Vernon Center	Oneida	8.875
417.	Glens Falls—Lake George	Warren	7.560
418.	Lake George—Bolton Landing	Warren	9.740

Road No.	Name of Road.	Broome	3.687
420.	Vestal	County.	Miles.
423.	Watertown—Theresa, Sec. 3	Jefferson	4.193
424.	Belleville—Adams, Sec. 1	Jefferson	1.802
425.	Adams—Watertown, Sec. 2	Jefferson	3.158
426.	State, Sec. 2	Jefferson	4.047
427.	Watertown—Carthage, Sec. 2	Jefferson	5.466
429.	Thompson	Onondaga	2.829
430.	Jordan Valley, Sec. 1	Onondaga	1,716
431.	Skaneateles—Spafford	Onondaga	2.504
434.	Anandale—Bay View	Nassau	1.690
438.	Augusta (Lowell and Spencer Sections)	Oneida	5.100
446.	Cortland—Groton, Sec. 1	Cortland	1.350
450.	Phoenix—Pennellville	Oswego	1.920
452.	Cicero—South Bay	Onondaga	3.526
453.	Poughkeepsie—Hyde Park	Dutchess	4.000
454.	Ithaca	Tompkins	3.660
455.	Wyckoff	Tompkins	.340
456.	Little Falls—East Creek	Herkimer	5.390
457.	Little Falls—Herkimer	Herkimer	5.320
458.	Herkimer—Frankfort	Herkimer	3,690
459.	East Schuyler—Deerfield	Herkimer	5.530
460.	Herkimer—Middleville	Herkimer	6.300
475.	Suspension Bridge—Lewiston	Niagara	2.420
482.	Dansville—Mt. Morris, Sec. 3	Livingston	2.230
483.	Catskill Turnpike, Sec. 3	Tompkins	4.440
484.	Canandaigua—Victor	Ontario	6.790
486.	Skaneateles—West Lake, Secs. 3, 4 and 5	Onondaga	3.370
487.	Elbridge	Onondaga	3.660
505.	Norwich—North Norwich	Chenango	4.600
506.	Chittenango—Eagle Village	Madison	2.180
507.	Transit, Sec. 3	Niagara	4.680
509.	Oswego—Mexico, Sec. 1	Oswego	5.400
510.	Homer—Tully, Sec. 1	Cortland	4.170
522.	Clarence—Hunts Corners	Erie	4.750
523.	Hamburgh—North Collins	Erie	8.860
534.	Northeast Center—Sharon Station	Dutchess	3.650
535.	Cortland—Dryden, Sec. 2	Cortland	2.700
537.	Amenia—Wassaic	Dutchess	4.830
539.	Fulton—Volney	Oswego	2.090
540.	Chatham—Spencertown	Columbia	3.740
549.	Poughkeepsie—Pleasant Valley	Dutchess	6.930
551.	Fishkill—Hughsonville	Dutchess	2.910
569.	Baldwin Place—Mahopee	Putnam	5.900
577.	Schenectady—Guilderland	Schenectady	7.100
586.	E. Pembroke—Genesee	Genesee	5.58

Plans and specifications for all of the above work may be seen at the office of the undersigned. They may also be seen for all roads in the counties of Albany, Clinton, Columbia, Dutchess, Essex, Fulton, Hamilton, Herkimer, Montgomery, Nassau, Orange, Otsego, Putnam, Rensselaer, Saratoga, Schenectady, Suffolk, Ulster, Warren and Westchester at the office of the Division Engineer of the Eastern Division in the State Hall, at Albany; for the counties of Broome, Cayuga, Chenango, Cortland, Jefferson, Madison, Oneida, Onondaga, Oswego and Tompkins at the office of the Division Engineer of the Middle Division in the Weigh Lock Building, Syracuse, N. Y., and for the counties of Chemung, Erie, Livingston, Monroe, Niagara, Ontario and Orleans at the office of the Division Engineer of the Western Division in the Triangle Building, Rochester, N. Y.

The attention of bidders is called to the fact that by chapters 468 and 506 of the Laws of 1906, contracts for the improvement of highways outside the limits of a city or incorporated village are exempted from the requirements of the eight-hour law.

Proposals must be made for the completion of each road for a lump sum in accordance with the plans and specifications therefor. Each proposal must be accompanied by a New York draft or certified check payable at sight to the order of the State Engineer and Surveyor for five per cent of the amount of the proposal, which draft or check will be held by him until the execution of the contract. The successful bidder will be required to give a bond for fifty per cent of the contract price, such bond to be executed by a surety company to be approved by the State Engineer and Surveyor. Monthly payments of ninety per cent will be made as the work progresses.

Proposals for each road must be presented in a separate sealed envelope endorsed on the outside with the number and name of the road for which the proposal is made.

Specifications, bidding sheets and form of contract may be had on application to the State Engineer or the Division Engineers above mentioned.

The right is reserved to reject any or all bids.

23-3t

HENRY A. VAN ALSTYNE,
State Engineer and Surveyor.

DEPARTMENT OF THE INTERIOR. Washington, D. C., June 7, 1906.—Sealed proposals will be received at the office of the Reclamation Service, 876 Federal Building, Chicago, Illinois, until 2 o'clock p. m., July 6, 1906, and thereafter opened, for the construction of deep and shallow wells, suction pipes, pumping stations, siphons, concrete lined conduits, and fencing. Particulars may be obtained by application to the Chief Engineer of the Reclamation Service, Washington, D. C., or to the Engineer, Garden City, Kansas. E. A. HITCHCOCK, Secretary. 24-3t

---

OFFICE COMMISSIONERS, DISTRICT OF COLUMBIA, Washington, D. C., June 4, 1906.—Sealed proposals will be received at this office until 12 m., June 25, 1906, for furnishing sluice gates. Forms, specifications and necessary information may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 24-2t

---

CONCRETE BRIDGES.

Concrete men can get good contracts to build bridges and culverts on Dallas County Roads. We will advance money as work progresses. BALL-CARDEN CO., Gaston Bank Bldg., Dallas, Texas. 23-tf

---

GOVERNOR'S ISLAND, N. Y., June 12, 1906.—Sealed proposals, in triplicate, for labor and material required for installing Steam Heating System in Post Hospital, Fort Jay, N. Y., will be received here until 11 a. m., June 22, 1906. U. S. reserves right to reject any or all bids. Information furnished on application. Envelopes containing proposals will be endorsed: "Proposals for Steam Heating System for Post Hospital, Fort Jay, N. Y." Capt. M. N. FALLS, Constructing Quartermaster. 24-1t

---

JOHN WILEY & SONS

BAKER—A Treatise on Roads and Pavements.
8vo, viii+655 pages. 171 figures, 68 tables. Cloth, $5.00.

BYRNE—Highway Construction.
8vo, xi+895 pages, 306 illustrations. Cloth, $5.00.

SPALDING—A Text-Book on Roads and Pavements.
12mo, viii+235 pages, 44 figures. Cloth, $2.00.

TILLSON—Street Pavements and Paving Materials.
8vo, xii+532 pages, 60 figures. Cloth, $4.00.

RICHARDSON—The Modern Asphalt Pavement.
8vo, vii+580 pages, 32 figures. Cloth, $3.00.

BYRNE—Inspection of the Materials and Workmanship Employed in Construction.
16mo, xvi+540 pages. Cloth, $3.00.

43 and 45 East Nineteenth Street, New York City

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 228.

PAVING.

Cohoes, N. Y.

Take notice that the Common Council of the City of Cohoes has determined to pave that portion of Ontario Street in the City of Cohoes leading from the D. & H. lands on Van Schaick's Island in the City of Cohoes westerly to that portion of Ontario Street which is paved, with curb on both sides of the street between that portion of the street to be paved, and with necessary catch-basins on that portion of the street to be paved.

That the City of Cohoes has caused to be filed the plans and specifications for said pavement, together with an estimate of the cost of such improvement, by the City Engineer of the City of Cohoes with the City Clerk of the City of Cohoes, and that the same are now on file with the City Clerk of said city.

Therefore, take notice that proposals and bids will be received for the doing of the work required in making said improvement upon said street according to the plans and specifications now on file with the City Clerk of the City of Cohoes for granite curb, suitable catch-basins as required by said specifications, and brick or block pavement consisting of Mack brick or Metropolitan brick; for pavement with block asphalt, with Medina sandstone, creo-resinate wood and granite block. And that such person or persons, corporation or corporations, who desire to bid upon the above-mentioned kind of pavement for said street and said improvement according to the plans and specifications now on file, are hereby required to present their proposals and bids to the Common Council of the City of Cohoes at its next meeting to be held at the Common Council Chamber in the City of Cohoes, N. Y., on the 19th day of June, 1906, and that proposals and bids will be received at said meeting for said improvement according to said plans and specifications.

That the Common Council of the City of Cohoes reserves the right to select from the above different kinds of pavements any kind of said pavement that it sees fit, and reserves the right to reject any and all bids.

Each bid and proposal must be accompanied by a certified check from the bidder for ten per cent. of the bid payable to the order of the Chamberlain of the City of Cohoes, which check and the moneys specified to be paid thereunder shall become the property of the City of Cohoes in case the bidder neglects to enter into the contract with the City of Cohoes for the performance of the work, provided the contract shall be awarded to him.

Each bidder is required to give a bond for the faithful performance of his said work according to the plans and specifications now on file, said security to be executed and delivered at the time of entering into the contract. The bond required shall be in the manner and form provided by the plans and specifications.

The amount of pavement to be laid is about 10,789 sq. yds.

WILLIAM J. ELLIOT,
City Clerk.

Dated Cohoes, N. Y., June 6, 1906. 24-1t

CIVIL SERVICE EXAMINATIONS—NEW YORK STATE.

Examinations will be held for the New York State Service as follows: June 30, 1906—Architectural Draftsman, $15 to $25 a week; Bridge Designer, $1,500 to $1,800; Bridge Draftsman, $1,200 to $1,500. July 7, 1906—Assistant Civil Engineer, $5 to $6 a day; Leveler, $4.50 to $5 a day.

For further particulars and application blank, address

CHIEF EXAMINER,
State Civil Service Commission,
24-1t Albany, N. Y.

U. S. ENGINEER OFFICE, New London, Conn., May 26, 1906.—Sealed proposals for dredging in Housatonic River, Conn., will be received here until 12 o'clock noon, June 26, 1906, and then publicly opened. Information furnished on application. HARRY TAYLOR, Maj., Engrs. 22-4t

---

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock p. m., June 28, 1906, and then opened, for furnishing miscellaneous articles for the Light-House Establishment, for the fiscal year ending June 30, 1907, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to LIEUT.-COL. WM. T. ROSSELL, Corps of Engineers, U. S. A., Engineer. 22-4t

---

GENERAL GRADING AND PAVING.

SEWAGE DISPOSAL WORKS.

Waterbury, Conn.

Sealed proposals for excavating soil and building embankments upon site of proposed sewage purification plant and paving a portion of the right bank of Naugatuck River, in accordance with the form of contract and specifications to be furnished by the Board of Public Works, Waterbury, Conn., will be received until 8 p. m. of the 3d day of July, 1906, at which hour the bids will be publicly opened and read.

The preliminary estimate of work to be done is as follows:

Item 1—Earth excavation: 100,000 cubic yards.

Item 2—Rock excavation: 500 cubic yards.

Item 3—Slope paving: 2,500 cubic yards.

Item 4—Riprap: 7,000 square yards.

Item 5—Overhaul, equivalent to hauled 100 ft.: 180,000 cubic yards.

These quantities are to be considered as only approximate and are given solely for the comparison of bids.

Each bid must be accompanied by a certified check for three thousand ($3,000) dollars drawn to the order of the Comptroller of the City of Waterbury, such check to be returned to the bidder unless forfeited under the conditions herein stipulated.

A bond in a sum equal to 30 per cent. of the contract price, as determined by the canvass of bids, and with an approved surety company as surety, will be required for the faithful performance of the contract.

Plans, specifications and form of contract can be seen and proposal blanks obtained by intending bidders applying in person at the office of the City Engineer, No. 9 Leavenworth St.

The time fixed for the completion of the work is November 15, 1906.

The Board reserves the right to reject any or all bids or to accept any bid, should the Board deem it to be for the interest of the city so to do.

By order of the Board of Public Works.

R. A. CAIRNS, C. E.,
City Engineer,
Waterbury, Conn.

June 5, 1906. 23-3t

24-INCH SEWER.

Bordentown, New Jersey.

Sealed proposals, marked as above, and addressed to H. W. Kunzi, City Clerk, Bordentown, N. J., will be received until 8 p. m., on Wednesday, June 20th, 1906, when they will be publicly opened and read by the Common Council, at a meeting to be held in the City Hall.

The proposals are desired for furnishing the labor and materials necessary in the construction of approximately 1,725 feet of 24-inch sewer in Bonaparte Park, Bordentown.

Plans and specifications may be seen and blank forms of proposal obtained at the office of the City Clerk, Bordentown, or at the office of Waring, Chapman & Farquhar, Civil Engineers, 874 Broadway, New York, on and after June 11th, 1906.

Each proposal must be made on the regular blank form, which may be obtained as above, and must be accompanied by a certified check for Five Hundred Dollars ($500), made payable to the City of Bordentown.

Upon award of the contract the checks of unsuccessful bidders will be immediately returned.

The Common Council reserves the right to reject any or all bids received.

H. W. KUNZI, 24-1t
City Clerk.

SEWER AND WATER PIPES.

Saranac Lake, N. Y.

Sealed proposals will be received by the Sewer and Water Board until 8 p. m., July 2d, 1906, for furnishing and laying 13,000 feet of sewer from 6-in. to 12-in. in diameter, and 10,000 feet of cast-iron water pipes, from 4-in. to 14-in. in diameter.

Separate bids will be received for each system. Plans may be seen at the office of the Clerk of the Board, and specifications may be had upon application to the Clerk of the Board or to the Engineer.

The Sewer and Water Board reserves the right to reject any or all proposals.

S. A. MILLER, Clerk.
JOHN L. COLLINS, Engr.,
444 Broadway, Albany, N. Y. 24-2t

U. S. ENGINEER OFFICE, Army Building, New York, June 15, 1906.—Sealed proposals for furnishing rubble stone and quarry spalls for constructing and repairing dikes in Hudson River, N. Y., will be received at this office until 12 m., July 5, 1906, and then publicly opened. Information furnished on application. W. R. LIVERMORE, Col., Engrs. 24-2t

---

PAVING.

Sealed proposals will be received at the Council chamber of the Borough of Indiana, Pa., until 7.30 p. m., June 29th, 1906, for paving

Philadelphia Street, from P. R. R. R. W. to B., R. & P. R. W.;
Church Street, from P. R. R. R. W. to 11th Street;
Church Street, from Sixth Street to P. R. R. R. Way;
Water Street, from Sixth to Seventh.
Water Street, from 7th to B., R. & P. R. Way;
Seventh Street, from Philadelphia to Carter;
Sixth Street, from Philadelphia to Chestnut;
Philadelphia Street, from Sixth to Seventh.

A certified check for $1,000 must accompany each bid. The Borough reserves the right to reject any or all bids.

R. M. MULLIN, 24-1t
Boro. Engineer.

WHEEL SCRAPER WORK.

WANTED—To sublet large amount of wheel scraper work. Four or five different jobs; two years' work. Payment 100% every two weeks. Small surety bond required. FICKLEN & STOBAUGH, 515 Mechanics Bank Bldg., Brooklyn, New York. 24-1t

---

LAYING SUBMERGED PIPE.

Brownsville, Pa.

Proposals will be received by the undersigned until June 27th, 1906, for laying 1,400 feet of 12-in. pipe across the Monongahela River near Brownsville, using Ward joint or one equally as good. The maximum depth of river for 1,000 feet is approximately 17 feet. Plans and specifications will be mailed on application. THE AMERICAN PIPE MANUFACTURING COMPANY, 112 North Broad St., Philadelphia. 24-1t

Situations Wanted

CIVIL ENGINEER, 28, Assoc. Member A. S. C. E., specialist on costs and methods of construction for heavy contracting work, experienced as engineer and superintendent on railroads, concrete, tunnels, dams, bridges, etc., at present holding responsible position with large contracting company, desires to change; reasonable notice. Address "E. 23," Engineering News, New York. 24-2t

M. E., TECHNICAL GRADUATE, three years' experience in factory engineering testing, designing and construction; familiar with the manufacture of gas and soap; at present employed by consulting engineer, desires position near N. Y. City. Address "F. B. 24," Engineering News, New York. 24-1t

Miscellaneous Wants

WANTED—AN ENGINEER'S TRANSIT.—One complete engineer's transit in good order; must be practically as good as new. Send price and full particulars to HARMAN ENGINEERING COMPANY, Peoria, Illinois. 24-2t

SITUATIONS OPEN

WANTED—A TECHNICAL WRITER.—The leading compressor builders want a technical advertising writer. He should be young and an engineering graduate, with practical experience, including writing; and he must write catalogue English. Address "Z B 23," Engineering News, New York. 23-2t

DRAFTSMEN AND FOREMEN wanted for reinforced concrete building construction; first-class men, with long experience in this line. Please state full particulars, age and salary wanted. L. J. MENSCH, Monon Bldg., Chicago. 23-2t

WANTED—A competent, experienced draftsman in general railroad, structural and bridge work; none but an experienced man wanted. Address "E. B. 24," Engineering News, New York. 24-3t

SWITCHBOARD MEN—Experienced men on telephone switchboard work, who are thoroughly familiar with circuits and who are capable of doing some executive work. This is a good opportunity for up-to-date men. Address reply to Department No. 29, Western Electric Company, Chicago. 24-12t

WANTED.—By an engineer's office, experienced structural draftsmen for detailing bridge work. Address "F. A. 23," Engineering News, New York. 23-1t

STRUCTURAL ENGINEER WANTED to take charge of drafting room in N. Y. City; must be acquainted with N. Y. City work. Address "G. B. 24," Engineering News, New York. 24-2t

GOOD TRANSITMEN WANTED on compressed air tunnel work in New York City; none but men who have had a large amount of accurate instrument work need apply. Applicant must be under 40 years of age. Salary, $100.00 to $120.00 per month. Apply, giving age, weight and full dated particulars of previous positions held, together with references, to "H. B. 24," Engineering News, New York. 24-1t

INSTRUCTOR IN CIVIL wanted for September in E school at $900 per year; appl be graduates in civil engine had from two to six years' pr perience and hold membership ican Society of Civil Engineers. in own handwriting, "B. 23" E News New York.

WANTED—A young, active man, w experience in building mov high-priced man, but one w to work the year round at r bu ness, with a chance to lear e ge eral contracting work. Addr M. J KANE, 9 Wade St., Worcester, Mass. 24-2t

WANTED. — Draftsmen wanted once. Openings for a number of g drafts- men, but especially those fam with: (1) general mechanical work r, (2) switchboard layout, or, (3) ind n motor design, or, (4) large alte or design; in one of the largest ps in Canada. Address "C. 24," Engineering News, New York. 24-1t

WANTED.—Technical graduate, with experience in bridge designing, to teach this and other civil engineering subjects; salary $100 per month; applicant should send specimen of his freehand lettering on a card 3 × 5 inches. Address "E. 24," Engineering News, New York. 24-2t

INSTRUCTOR IN CIVIL ENGINEERING wanted for September in Eastern University; applicants must be from 25 to 30 years old and have degree of C. E.; salary $900. Address "D. 24," Engineering News, New York. 24-2t

WANTED.—A man with considerable executive ability and 10 years' experience in construction work, to assume full charge of the business and managing end of a very large contracting company. Address "F. 24," Engineering New, New York. 24-2t

WANTED.—An experienced construction engineer, with business ability, to take charge of branch office of large manufacturing and constructing company. Address "G. 24," Engineering News, New York. 24-2t

WANTED.—Superintendent take charge general construction work concrete, buildings, etc.; send references regarding past experience. BRADY CONSTRUCTION COMPANY, Fairmont, W. Va. 24-3t

ENGINEER or contractor, with 10 years' practical experience general contracting, including reinforced concrete, capable to manage work; percentage if desired. Chicago company; replies confidential. Address "K. 24," Eugineering News, New York. 24-2t

WANTED.—First-class general foreman with experience on grading and macadam road building. WEST CONSTRUCTION COMPANY, Chattanooga, Tenn. 24-1t

WANTED.—A transit man for general work; one with experience around steel plants and blast furnaces and with good knowledge of railroad work preferred. One draftsman for railroad map work. Apply, giving age, experience, etc., to G. R. RAMSEY, Civil Engineer, Tennessee Coal, Iron & R. R. Co., Ensley, Ala. 24-4t

A LARGE CORPORATION having a number of factories, located west of the Mississippi, is desirous of obtaining the services of a first-class mechanical engineer, to act as traveling assistant to their Consulting Engineer; must be thoroughly qualified to supervise the mechanical operation of their plants, and capable of directing the work of large forces of men, located at various points; applicant must have had practical experience in industrial plants, and possess the necessary qualifications to assume a more responsible position if called upon. In answering, state present engagement, age, nationality and salary desired, giving past experience, with references. Address "Z. 24," Engineering News, New York. 24-1t

PROPRIETOR small but growing manufacturing concern, building brick machines, steam pumps and special machinery, wants services of experienced man with technical and business training, able to take complete charge; man willing to prove value by working for minimum salary and percentage of profits preferred. Address "A. A. 24," Engineering News, New York. 24-tf

STRUCTURAL DRAFTSMAN thoroughly capable of laying out, detailing and checking; state experience, age, married or single, salary expected, and when he can report for work. Address "W. A. 17," Engineering News, New York. 24-tf

FROG AND SWITCH DRAFTSMAN; one familiar with all the details of the work; state experience, age, married or single, salary expected, and when he can report for work. Address "S. A. 17," Engineering News, New York. 24-tf

WANTED.—Capable man to take off quantities for estimating purposes; all lines of building trade. Address "C. A. 24," Engineering News, New York. 24-1t

WANTED.—Two instructors in Civil Engineering, technical graduates; one having railroad experience and one structural steel experience. Address PROFESSOR OF CIVIL ENGINEERING, University of Cincinnati, Cincinnati, Ohio. 24-1t

WANTED.—Experienced salesman to sell large pressure type water filters; salary and traveling expenses; state previous experience. Address "I. A. 24," Engineering News, New York 24-1t